

October 20, 2009
File No. 43532.10

Mr. Victor Alvarez
United States Environmental Protection Agency – Region 1
1 Congress Street, Suite 1100
Boston, Massachusetts 02114-2023



One Edgewater Drive
Norwood
Massachusetts
02062
781-278-3700
FAX 781-278-5701
<http://www.gza.com>

Re: Submittal of Notice of Intent (NOI)
Excavation Dewatering –Lebanon Brook Remediation Restoration
11 Village Drive
Southbridge, Massachusetts
MassDEP - RTN No. 2-13744

Dear Mr. Alvarez:

On behalf of Brookside Terrace Associates, LP (BT), GZA GeoEnvironmental, Inc. (GZA) has prepared this Notice of Intent (NOI) for application of a National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP) for proposed remediation activities at the above referenced location (Figure 1). This NOI is being submitted for conducting the remedial action chosen in the Phase III Remedial Action Plan (RAP) to remove soil containing polychlorinated biphenyls (PCBs) and lead from the north bank of Lebanon Brook and to remove an area of PCB impacted sediment in portions of Lebanon Brook as per Massachusetts Contingency Plan (MCP: 310 CMR 40.0000).

The proposed remedial activities are described in GZA's Phase III - RAP submitted to the Massachusetts Department of Environmental Protection (MassDEP) on November 24, 2008. The Site remediation will be conducted in accordance with all applicable MassDEP regulations and under the guidance of a Licensed Site Professional (LSP). As there is a likely need to discharge water generated from the dewatering of the areas of the brook to be excavated, the enclosed NOI form provides required information on the general site conditions, proposed treatment system, discharge location and receiving water, and analytical results for the Lebanon Brook channel, which is shown in Figure 2.

The excavation, dewatering, and discharge of treated water are scheduled to begin during low-flow season in summer 2010.

SITE DESCRIPTION

The Site consists of two parcels of land totaling approximately 19.5 acres and is occupied by the Brookside Terrace Apartment buildings. Lebanon Brook, a tributary of the Quinebaug River, traverses the Site from northwest to southeast. The Site consists of 17 apartment buildings and one maintenance/office building which were constructed in 1974. The Site is bounded to the north by wooded areas and an abandoned rail line beyond which is the Quinebaug River; to the east by wooded areas; to the south by Route 131 and a



residential area; and to the west by Sandersdale Road and a commercial/industrial area. Figure 2 depicts relevant Site features.

Lebanon Brook has a watershed of approximately 10 square miles (SM). The on-Site portion of Lebanon Brook is approximately 1,600 linear feet (LF) of stream channel between an old unused bridge on-Site (located approximately 460 feet downstream of the Route 131 bridge), and the confluence with the Quinebaug River. The road servicing the Brookside Terrace Apartment complex is Village Drive, a portion of which is a circular roadway, which crosses Lebanon Brook in two locations.

Site History

Based on historical records the upland portion of the Site north of Lebanon Brook was extensively filled prior to construction of the apartment buildings. PCBs and certain inorganic metals (primarily lead and antimony) were detected in Site materials coincident with the likely limits of these historically filled areas. The source of these impacted fills, which were likely placed on-Site between 1962 and 1974, is unknown. The northern and eastern extents of these fills were found to generally coincide with the property line near the railroad line. Based on upland investigations and remediation performed by Rizzo Associates, this fill extends south and west toward the current configuration of Lebanon Brook. Fill depths were observed to generally extend from approximately 4 to 6 feet below grade.

PROPOSED ACTIVITIES

The 1,300 LF of soil along the North Bank of Lebanon Brook will be removed with an excavator. Work will start upstream near the “Old Bridge” and move downstream. Work will be conducted in manageable cells of 50-100 feet depending on water flow and site conditions. Impacted material will be taken to the Primary Remediation Staging Area located in the eastern portion of the Site in the parking lot for the “New Playground Area” (see Figure 2). Additionally up to 4000 SF of oil-impacted sediment in Lebanon Brook referred to as the Area of Readily Apparent Harm (RAH) will be removed during the same time period as the sediments in the North Bank.

Access to the North Bank will be gained through existing roadways wherever possible but equipment will need to have enough room to maneuver safely from the top of the bank. Excavation will be conducted “in the dry” condition created by the establishment of the Aqua-Barrier and the diversion of the stream through a 4 foot pipe. Water from all initial dewatering and groundwater into the dewatered area will be pumped into a fractionation tank and then through a temporary on-site treatment system to remove contaminants, as per the requirements of the NPDES-RGP, and discharged as shown on Figure 2. The fractionation tanks and treatment system will be located in up to three different areas in order to accommodate the particular area of excavation on the North Bank. The excavated material will then be loaded onto a truck, which will transport it to the Remediation Staging Area. The material will be stockpiled in a poly-lined containment cell formed by jersey barriers. A collector trench area will capture leach water and a pump will transport



it to the treatment system. The discharge points will also coincide with the locations of the treatment system as shown on Figure 2.

Please do not hesitate to contact the undersigned at (781) 278-3700 if you have any questions or require further information.

Very truly yours,

GZA GEOENVIRONMENTAL, INC.

A handwritten signature in blue ink, appearing to read 'Sowjanya Chintalapati'.

Sowjanya Chintalapati
Environmental Engineer I

A handwritten signature in blue ink, appearing to read 'Russell B. Parkman'.

Russell B. Parkman, P.E.
Consultant/Reviewer

A handwritten signature in blue ink, appearing to read 'Michele Simoneaux'.

Michele Simoneaux
Project Manager

A handwritten signature in blue ink, appearing to read 'Gregg McBride'.

Gregg McBride, LSP
Principal

Enclosures:

- Attachment 1: NOI Form
- Attachment 2: Figure 1 - Site Locus Map
- Attachment 3: Figure 2 - Proposed Activity Plan of Lebanon Brook Area
- Attachment 4: Figure 3 - Process Flow Diagram
- Attachment 5: Laboratory Analytical Results
- Attachment 6: Supplemental Information - 7Q10 data for Lebanon Brook
- Attachment 7: Copy of a letter from Tribal Historic Preservation Officer

cc: Mr. John E. Rosenthal
MassDEP – Central Region
Nanda Thalasila, Chartis Insurance
Barbara Henning, Chartis Insurance

ATTACHMENT 1

NOI FORM

B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit

1. General site information. Please provide the following information about the site:

a) Name of facility/site : Brookside Terrace Apartments		Facility/site address: 11 Village Drive, Southbridge, MA 01550	
Location of facility/site : longitude: -72° 00' 72" latitude: 42° 06' 52"	Facility SIC code(s):	Street: Village Drive	
b) Name of facility/site owner : Brookside Terrace Associates, LP		Town: Southbridge	
Email address of owner: JRosenthal@MeredithManagement.com	State: MA	Zip: 01550	County: Worcester
Telephone no. of facility/site owner : (617) 365-2200	Owner is (check one): 1. Federal____ 2. State/Tribal____ 3. Private <input checked="" type="checkbox"/> 4. other, if so, describe:		
Fax no. of facility/site owner : N/A			
Address of owner (if different from site):			
Street: One Bridge Street, Suite 300			
Town: Newton	State: MA	Zip: 02458	County: Middlesex
c) Legal name of operator : Brookside Terrace Associates, LP		Operator telephone no: (617) 965-2200 Operator fax no.: N/A Operator email: JRosenthal@MeredithManagement.com	
Operator contact name and title: John E. Rosenthal			
Address of operator (if different from owner):		Street:	
Town:	State:	Zip:	County:
d) Check "yes" or "no" for the following: 1. Has a prior NPDES permit exclusion been granted for the discharge? Yes___ No <input checked="" type="checkbox"/> , if "yes," number: 2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes___ No <input checked="" type="checkbox"/> , if "yes," date and tracking #: 3. Is the discharge a "new discharge" as defined by 40 CFR 122.2? Yes <input checked="" type="checkbox"/> No___ 4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes <input checked="" type="checkbox"/> No___			

<p>e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>If "yes," please list:</p> <ol style="list-style-type: none"> 1. site identification # assigned by the state of NH or MA: <u>MA</u> 2. permit or license # assigned: <u>RTN 2-13744</u> 3. state agency contact information: name, location, and telephone number: <u>MA DEP Central Regional Office, 627 Main St., Worcester, MA 508-792-7650</u> 	<p>f) Is the site/facility covered by any other EPA permit, including:</p> <ol style="list-style-type: none"> 1. multi-sector storm water general permit? Y <input type="checkbox"/> N <input checked="" type="checkbox"/>, if Y, number: 2. phase I or II construction storm water general permit? Y <input type="checkbox"/> N <input checked="" type="checkbox"/>, if Y, number: 3. individual NPDES permit? Y <input type="checkbox"/> N <input checked="" type="checkbox"/>, if Y, number: 4. any other water quality related permit? Y <input checked="" type="checkbox"/> N <input type="checkbox"/>, if Y, number: <p>In the application process of 404-Army Corp PGP-2, 401-WQC (dredging & fill / excavation), OOC Southbridge CC, MESA-NHESP, MEPA Certificate Permits.</p>
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2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed) including:

<p>a) Describe the discharge activities for which the owner/applicant is seeking coverage:</p> <p>During the Phase III Activities at the North bank of Lebanon Brook location, there is a likely need to discharge water generated from the dewatering of areas to be excavated.</p>			
<p>b) Provide the following information about each discharge:</p>	<table border="1"> <tr> <td style="vertical-align: top;"> <p>1) Number of discharge points:</p> <p><u>4</u></p> </td> <td style="vertical-align: top;"> <p>2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft³/s)? Max. flow <u>0.22 cfs</u></p> <p>Average flow <u>0.066 cfs</u> Is maximum flow a design value? Y <input checked="" type="checkbox"/> N <input type="checkbox"/></p> <p>For average flow, include the units and appropriate notation if this value is a design value or estimate if not available.</p> </td> </tr> </table>	<p>1) Number of discharge points:</p> <p><u>4</u></p>	<p>2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft³/s)? Max. flow <u>0.22 cfs</u></p> <p>Average flow <u>0.066 cfs</u> Is maximum flow a design value? Y <input checked="" type="checkbox"/> N <input type="checkbox"/></p> <p>For average flow, include the units and appropriate notation if this value is a design value or estimate if not available.</p>
<p>1) Number of discharge points:</p> <p><u>4</u></p>	<p>2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft³/s)? Max. flow <u>0.22 cfs</u></p> <p>Average flow <u>0.066 cfs</u> Is maximum flow a design value? Y <input checked="" type="checkbox"/> N <input type="checkbox"/></p> <p>For average flow, include the units and appropriate notation if this value is a design value or estimate if not available.</p>		
<p>3) Latitude and longitude of each discharge within 100 feet: pt.1:long. <u>-72° 00' 25"</u> lat. <u>42° 03' 53"</u>; pt.2: long. <u>-72° 00' 21"</u> lat. <u>42° 03' 52"</u>; pt.3: long. <u>-72° 00' 18"</u> lat. <u>42° 03' 52"</u>; pt.4:long. <u>-72° 00' 15"</u> lat. <u>42° 03' 50"</u>; pt.5: long. _____ lat. _____; pt.6:long. _____ lat. _____; pt.7: long. _____ lat. _____; pt.8:long. _____ lat. _____; etc.</p>			
<p>4) If hydrostatic testing, total volume of the discharge (gals):</p>	<p>5) Is the discharge intermittent <input checked="" type="checkbox"/> or seasonal _____?</p> <p>Is discharge ongoing Yes _____ No <input checked="" type="checkbox"/>?</p>		
<p>c) Expected dates of discharge (mm/dd/yy): start <u>07/15/10</u> end <u>11/15/10</u></p>			
<p>d) Please attach a line drawing or flow schematic showing water flow through the facility including:</p> <p>1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).</p>			

3. Contaminant information. In order to complete this section, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for **all** of the parameters listed in Appendix III. Historical data, (i.e., data taken no more than 2 years prior to the effective date of the permit) may be used if obtained pursuant to: i. Massachusetts' regulations 310 CMR 40.0000, the Massachusetts Contingency Plan ("Chapter 21E"); ii. New Hampshire's Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, provided the data was analyzed with test methods that meet the requirements of this permit. Otherwise, a new sample shall be taken and analyzed.

a) Based on the analysis of the sample(s) of the untreated influent, the applicant must check the box of the sub-categories that the potential discharge falls within.

Gasoline Only	VOC Only	Primarily Metals	Urban Fill Sites	Contaminated Sumps	Mixed Contaminants	Aquifer Testing
Fuel Oils (and Other Oils) only	VOC with Other Contaminants ✓	Petroleum with Other Contaminants	Listed Contaminated Sites	Contaminated Dredge Condensates	Hydrostatic Testing of Pipelines/Tanks	Well Development or Rehabilitation

b) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge. Attach additional sheets as needed.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids		✓	2	grab	2540D	5,000	29,000		23,000	
2. Total Residual Chlorine		✓	2	grab	4500 Cl D	20	120		90	
3. Total Petroleum Hydrocarbons	✓		2	grab	1664 A	5,000	BDL		BDL	
4. Cyanide	✓		2	grab	4500 CN CE	5	BDL		BDL	
5. Benzene	✓		2	grab	8260	1	BDL		BDL	
6. Toluene	✓		2	grab	8260	1	BDL		BDL	
7. Ethylbenzene	✓		2	grab	8260	1	BDL		BDL	
8. (m,p,o) Xylenes	✓		2	grab	8260	3	BDL		BDL	
9. Total BTEX ⁴	✓		2	grab	8260	6	BDL		BDL	

⁴BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide ⁵ (1,2- Dibromo-methane)	✓		2	grab	8260	2	BDL		BDL	
11. Methyl-tert-Butyl Ether (MtBE)	✓		2	grab	8260	1	BDL		BDL	
12. tert-Butyl Alcohol (TBA)	✓		2	grab	8260	25	BDL		BDL	
13. tert-Amyl Methyl Ether (TAME)	✓		2	grab	8260	2	BDL		BDL	
14. Naphthalene	✓		2	grab	8260	2	BDL		BDL	
15. Carbon Tetra-chloride	✓		2	grab	8260	1	BDL		BDL	
16. 1,4 Dichlorobenzene	✓		2	grab	8260	1	BDL		BDL	
17. 1,2 Dichlorobenzene	✓		2	grab	8260	1	BDL		BDL	
18. 1,3 Dichlorobenzene	✓		2	grab	8260	1	BDL		BDL	
19. 1,1 Dichloroethane	✓		2	grab	8260	1	BDL		BDL	
20. 1,2 Dichloroethane	✓		2	grab	8260	1	BDL		BDL	
21. 1,1 Dichloroethylene	✓		2	grab	8260	1	BDL		BDL	
22. cis-1,2 Dichloro-ethylene	✓		2	grab	8260	1	BDL		BDL	
23. Dichloromethane (Methylene Chloride)	✓		2	grab	8260	2	BDL		BDL	
24. Tetrachloroethylene	✓		2	grab	8260	1	BDL		BDL	

⁵EDB is a groundwater contaminant at fuel spill and pesticide application sites in New England.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✓		2	grab	8260	1	BDL		BDL	
26. 1,1,2 Trichloroethane	✓		2	grab	8260	1	BDL		BDL	
27. Trichloroethylene	✓		2	grab	8260	1	BDL		BDL	
28. Vinyl Chloride	✓		2	grab	8260	1	BDL		BDL	
29. Acetone	✓		2	grab	8260	25	BDL		BDL	
30. 1,4 Dioxane	✓		2	grab	8260	100	BDL		BDL	
31. Total Phenols	✓		2	grab	8270-Low	180	BDL		BDL	
32. Pentachlorophenol	✓		2	grab	8270-Low	10	BDL		BDL	
33. Total Phthalates ⁶ (Phthalate esthers)	✓		2	grab	8270-Low	81	BDL		BDL	
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	✓		2	grab	8270-Low	1	BDL		BDL	
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)										
a. Benzo(a) Anthracene		✓	2	grab	8270-Low	0.05	0.38		0.32	
b. Benzo(a) Pyrene		✓	2	grab	8270-Low	0.1	0.29		0.22	
c. Benzo(b)Fluoranthene		✓	2	grab	8270-Low	0.05	0.53		0.43	
d. Benzo(k) Fluoranthene		✓	2	grab	8270-Low	0.2	0.27		0.13	
e. Chrysene		✓	2	grab	8270-Low	0.2	0.38		0.3	

⁶The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	✓		2	grab	8270-Low	0.2	BDL		BDL	
g. Indeno(1,2,3-cd) Pyrene		✓	2	grab	8270-Low	0.2	0.28		0.14	
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)										
h. Acenaphthene	✓		2	grab	8270-Low	0.3	BDL		BDL	
i. Acenaphthylene	✓		2	grab	8270-Low	0.3	BDL		BDL	
j. Anthracene		✓	2	grab	8270-Low	0.2	0.26		0.13	
k. Benzo(ghi) Perylene	✓			grab	8270-Low	0.05	BDL		BDL	
l. Fluoranthene		✓	2	grab	8270-Low	0.5	1.46		1.09	
m. Fluorene	✓		2	grab	8270-Low	1	BDL		BDL	
n. Naphthalene-	✓		2	grab	8270-Low	1	BDL		BDL	
o. Phenanthrene			2	grab	8270-Low	0.05	1.35		1.08	
p. Pyrene	✓		2	grab	8270-Low	1	BDL		BDL	
37. Total Polychlorinated Biphenyls (PCBs)		✓	2	grab	608	0.10	0.43		0.41	
38. Antimony	✓		2	grab	6010B	25	BDL		BDL	
39. Arsenic	✓		2	grab	6010B	5	BDL		BDL	
40. Cadmium	✓		2	grab	6010B	5	BDL		BDL	
41. Chromium III		✓	2	grab	6010B	5	6		3	
42. Chromium VI	✓		2	grab	SM 3500 Cr D	10	BDL		BDL	

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper		✓	2	grab	6010B	5	24		23.5	
44. Lead		✓	2	grab	6010B	10	24		20.5	
45. Mercury	✓		2	grab	7470A	0.2	BDL		BDL	
46. Nickel	✓		2	grab	6010B	10	BDL		BDL	
47. Selenium	✓		2	grab	6010B	25	BDL		BLD	
48. Silver	✓		2	grab	6010B	5	BDL		BDL	
49. Zinc		✓	2	grab	6010B	10	47		43	
50. Iron		✓	2	grab	6010B	25	1,900		1,420	
Other (describe):										

c) For discharges where **metals** are believed present, please fill out the following:

<p><i>Step 1:</i> Do any of the metals in the influent have a reasonable potential to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y <u>✓</u> N _____</p>	<p>If yes, which metals? Copper (Cu), Lead (Pb), Iron (Fe).</p>
<p><i>Step 2:</i> For any metals which have reasonable potential to exceed the Appendix III limits, calculate the dilution factor (DF) using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metals: <u>Copper (Cu), Lead (Pb), Iron (Fe).</u> DF: <u>1.63</u></p>	<p>Look up the limit calculated at the corresponding dilution factor in Appendix IV. Do any of the metals in the influent have the potential to exceed the corresponding effluent limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y <u>✓</u> N _____ If “Yes,” list which metals: Copper (Cu), Lead (Pb), Iron (Fe).</p>

4. Treatment system information. Please describe the treatment system using separate sheets as necessary, including:

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:						
b) Identify each applicable treatment unit (check all that apply):	Frac. tank <input checked="" type="checkbox"/>	Air stripper	Oil/water separator	Equalization tanks	Bag filter <input checked="" type="checkbox"/>	GAC filter <input checked="" type="checkbox"/>
	Chlorination	Dechlorination	Other (please describe):			
c) Proposed average and maximum flow rates (gallons per minute) for the discharge and the design flow rate(s) (gallons per minute) of the treatment system: Average flow rate of discharge <u>30 gpm.</u> Maximum flow rate of treatment system <u>100 gpm</u> Design flow rate of treatment system <u>100 gpm</u>						
d) A description of chemical additives being used or planned to be used (attach MSDS sheets): <u>None</u>						

5. Receiving surface water(s). Please provide information about the receiving water(s), using separate sheets as necessary:

a) Identify the discharge pathway:	Direct <u> </u>	Within facility <u> </u>	Storm drain <u> </u>	River/brook <input checked="" type="checkbox"/>	Wetlands <u> </u>	Other (describe):
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters: <u>Treated water discharges via temporary piping to the discharge channel. Discharged water flows via Lebanon Brook to Quinebaug River.</u>						
c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water: 1. For multiple discharges, number the discharges sequentially. 2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.						
d) Provide the state water quality classification of the receiving water <u>Class B (Lebanon Brook a tributary of Quinebaug River.).</u>						
e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water <u>0.14</u> cfs Please attach any calculation sheets used to support stream flow and dilution calculations.						
f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes <u> </u> No <input checked="" type="checkbox"/> If yes, for which pollutant(s)? Is there a TMDL? Yes <u> </u> No <input checked="" type="checkbox"/> If yes, for which pollutant(s)?						

6. Results of Consultation with Federal Services: Please provide the following information according to requirements of Part I.B.4 and Appendices II and VII.

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> National Heritage Endangered Species Program Review Has any consultation with the federal services been completed ? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> or is consultation underway? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (check one): N/A a “no jeopardy” opinion? <input type="checkbox"/> or written concurrence <input type="checkbox"/> on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?
b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Attached is a copy of letter

7. Supplemental information. :

Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.
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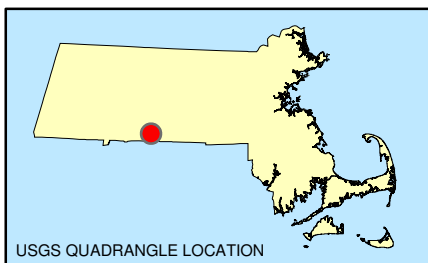
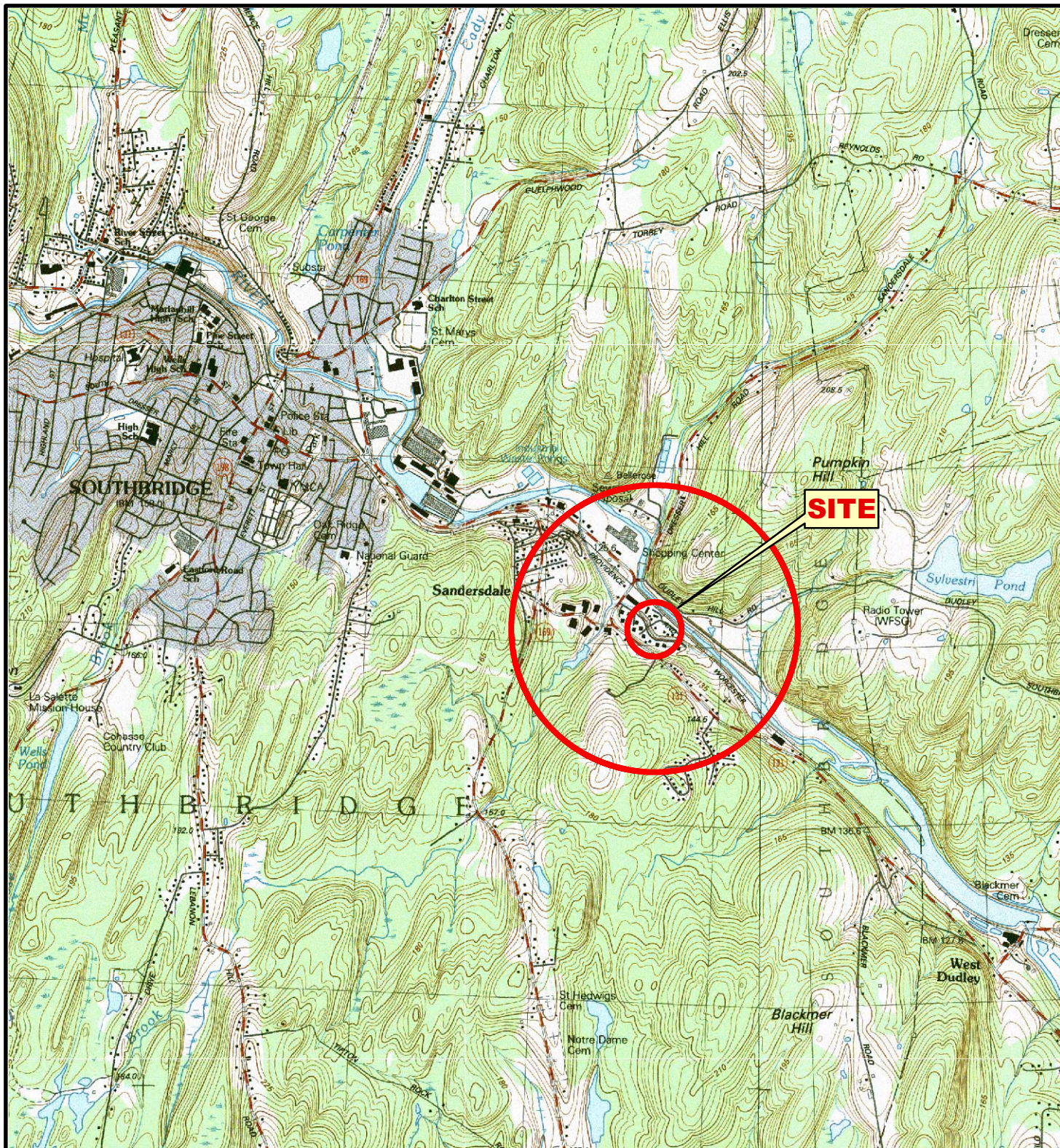
8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility/Site Name: Brookside Terrace Apartments
Operator signature:
Title:
Date:

ATTACHMENT 2

FIGURE 1 – SITE LOCUS MAP



SOURCE : SCANNED USGS TOPOGRAPHIC QUADRANGLES
SCANNED BY THE MASSACHUSETTS EXECUTIVE OFFICE OF
ENVIRONMENTAL AFFAIRS, MASSGIS. DISTRIBUTED JUNE, 2001.

Data Supplied by :



0 1,000 2,000 4,000 6,000
Feet



PROJ. MGR.: SMS
DESIGNED BY: LGM
REVIEWED BY: SMS
OPERATOR: LGM

DATE: 02-20-2009

SITE LOCATION MAP
SHOWING 500 FOOT & 1/2 MILE RADII

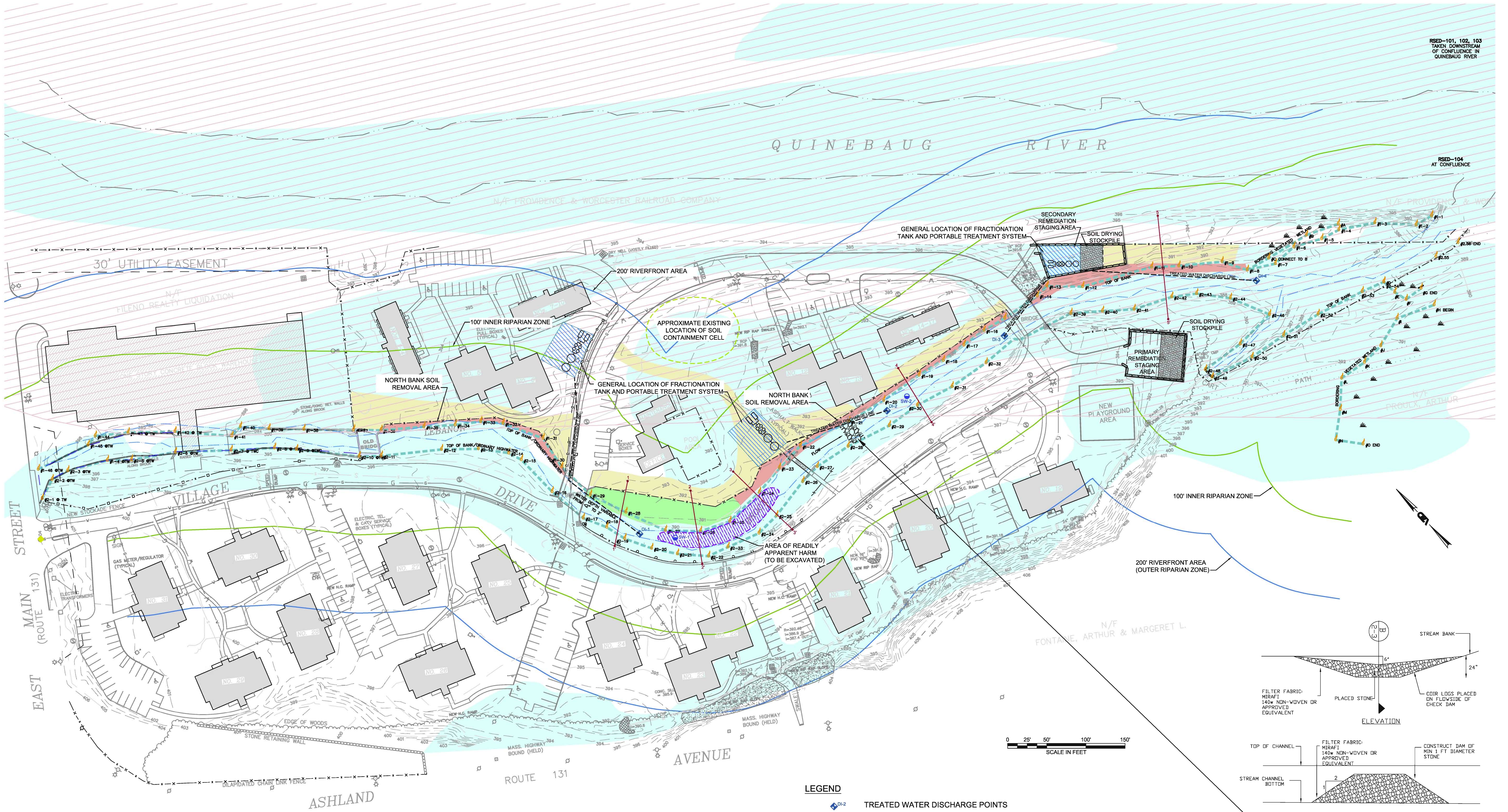
11 VILLAGE DRIVE
SOUTHBRIDGE, MASSACHUSETTS

JOB NO.
01.0043532.10

FIGURE NO.
1

ATTACHMENT 3

FIGURE 2 – PROPOSED ACTIVITY PLAN OF LEBANON BROOK AREA

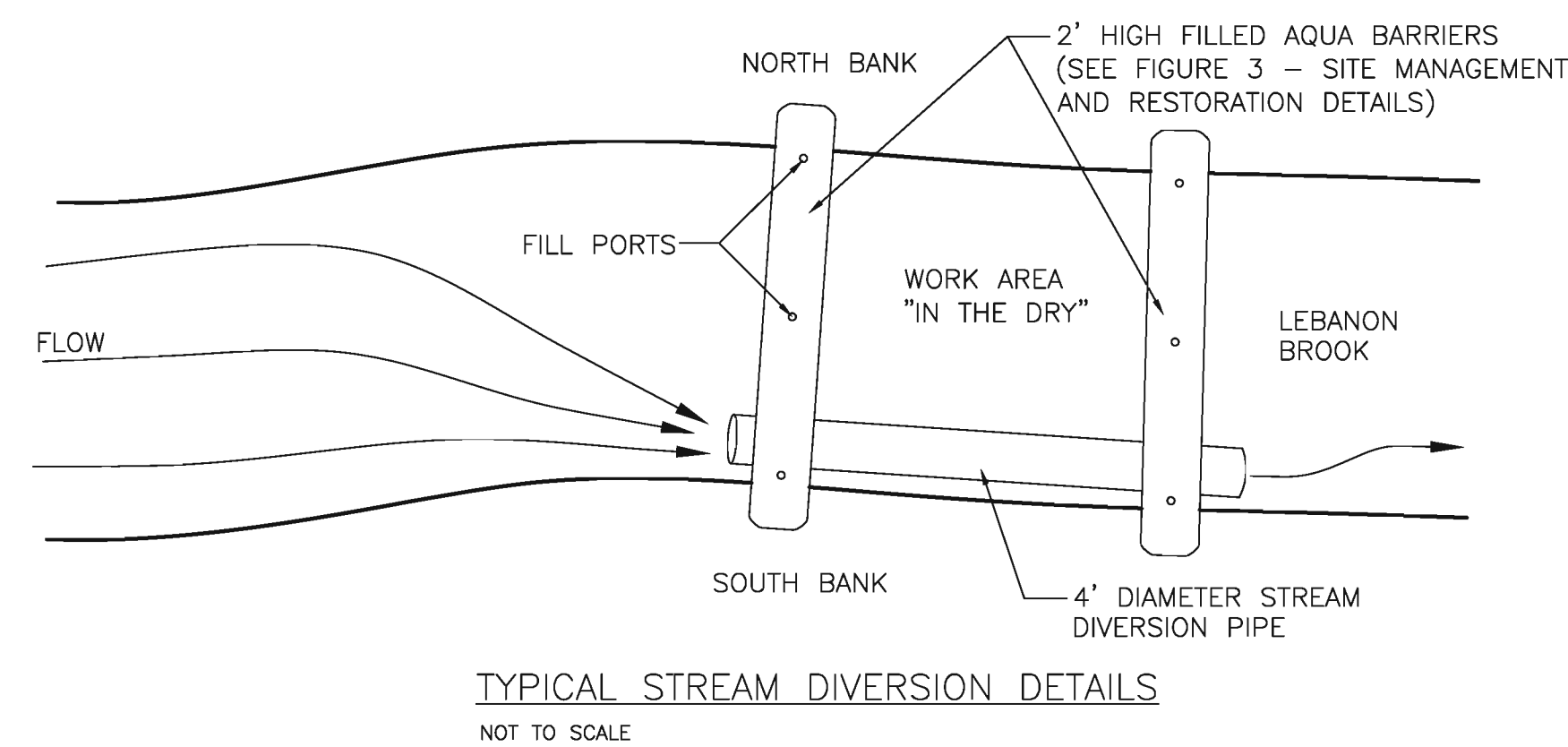


GENERAL NOTES:

1. EROSION AND SEDIMENTATION CONTROLS WILL BE ESTABLISHED FOR EACH "WORK ZONE". STRAW WATTLES OR SIMILAR DESEDED EROSION CONTROL METHODS WILL BE USED.
2. ONE TREATMENT SYSTEM WILL BE UTILIZED IN UP TO THREE SEPARATE LOCATIONS AS SHOWN ON THE PLAN.
3. UP TO FOUR DISCHARGE POINTS WILL BE UTILIZED FOR THE DISCHARGE OF TREATED WATER.
4. PORTABLE TREATMENT SYSTEMS CONSIST OF TWO FRACTIONATION TANKS, FOUR BAG FILTERS, AND TWO LIQUID PHASE CARBON UNITS (NOT TO SCALE)

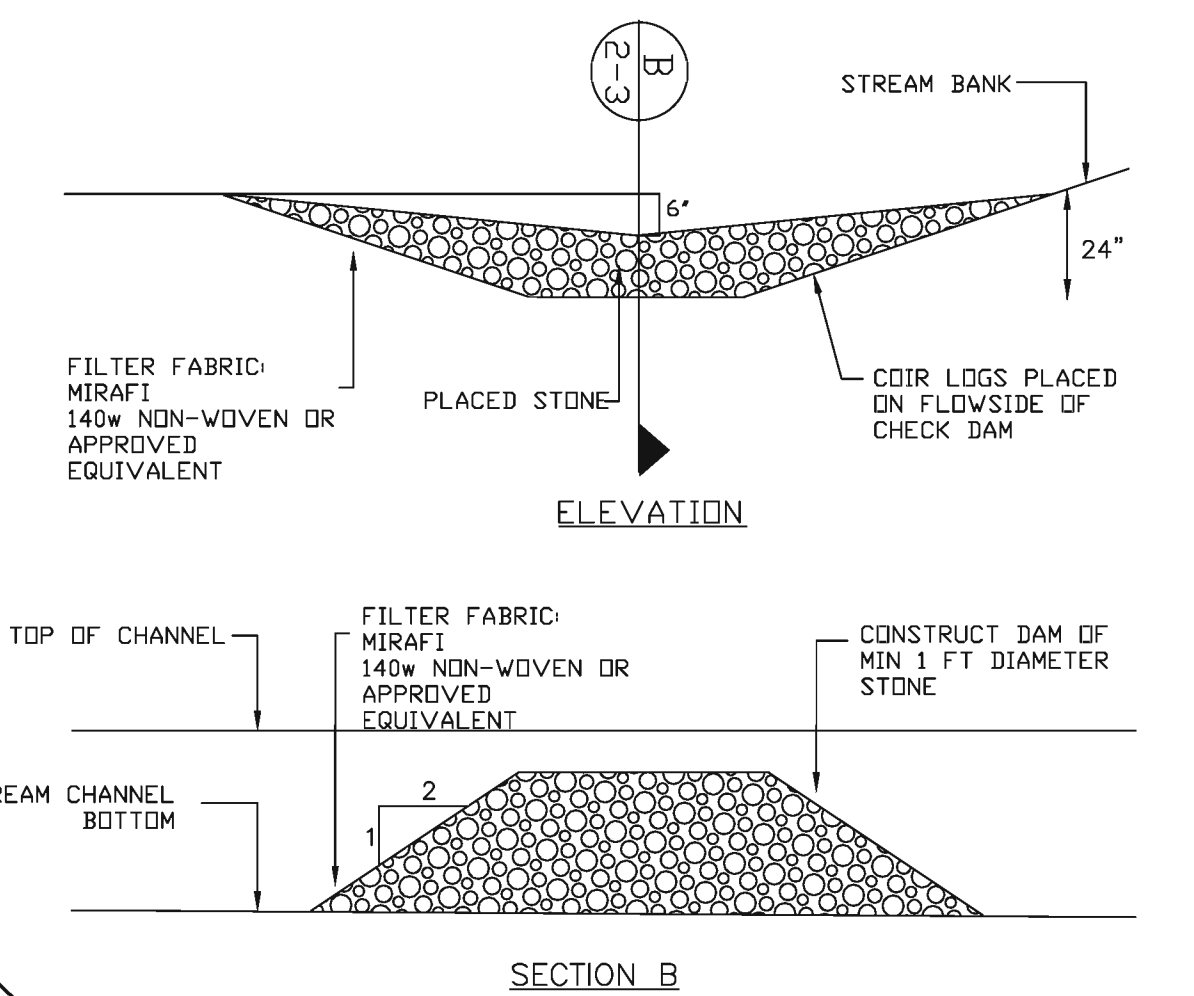
SOURCE:

1. THE BASE PLAN WAS DEVELOPED FROM ELECTRONIC FILES PROVIDED BY RIZZO ASSOCIATES ENTITLED "LEBANON BROOK EAST - FIGURE A" & "LEBANON BROOK WEST AND CENTER - FIGURE B" DATED 03-25-06, ORIGINAL SCALE 1"=20', JOB NO.: 6955-015, CAD FILE: 6955-P-EBRKAALLPTS2006.DWG
2. RIZZO LIMIT OF UPLAND REMEDIATION ESTIMATED AND APPROXIMATE BASED ON RIZZO ASSOCIATES, BROOKSIDE TERRACE, SOUTHBRIDGE, MA. SOIL MANAGEMENT GRID 3-S' MODIFIED. DATED FEBRUARY 15, 2005.
3. THE LOCATION AND ELEVATIONS OF THE CROSS SECTIONS WERE APPROXIMATELY DETERMINED BY TAPE MEASUREMENTS AND LEVEL SURVEY FROM EXISTING TOPOGRAPHIC AND MAN-MADE FEATURES. THE DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.
4. THE LOCATIONS OF THE SURFACE WATER SAMPLES WERE APPROXIMATELY DETERMINED BY GLOBAL POSITIONING SYSTEM (GPS) PERFORMED BY GZA PERSONNEL ON FEBRUARY 12, 2009. THE DATA SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.



LEGEND

- DI-2 TREATED WATER DISCHARGE POINTS
- SW-1 SURFACE WATER SAMPLE COLLECTED BY GZA PERSONNEL ON FEBRUARY 12, 2009
- CROSS SECTION LOCATION
- TOP OF BANK AND BORDERING VEGETATED WETLANDS BOUNDARY
- 100' BUFFER ZONE
- 100' INNER RIPARIAN ZONE
- 200' RIVERFRONT AREA (100' OUTER RIPARIAN ZONE)
- STRAW WATTLES EROSION CONTROL (SEE DETAILS)
- ACCESS AREA AND AREA OF DISTURBANCE (TEMPORARY)
- NORTH BANK UPLAND AREA (SOIL REMOVAL)
- NORTH BANK SOIL REMOVAL AREA
- FEMA FLOOD ZONE A
- NHESP PRIORITY HABITATS OF RARE SPECIES
- AREA OF READILY APPARENT HARM
- PORTABLE TREATMENT SYSTEM AREA



NOTE:

1. DOWNSTREAM CHECKDAM FOR IN-STREAM SEDIMENT CONTROL AND REMEDIATION GENERAL PERMIT (RGP) DISCHARGE. EXACT LOCATIONS TO BE DETERMINED IN THE FIELD.
2. MULTIPLE CHECKDAMS MAY BE INSTALLED TO BE DETERMINED BY THE ENGINEER ON SITE.

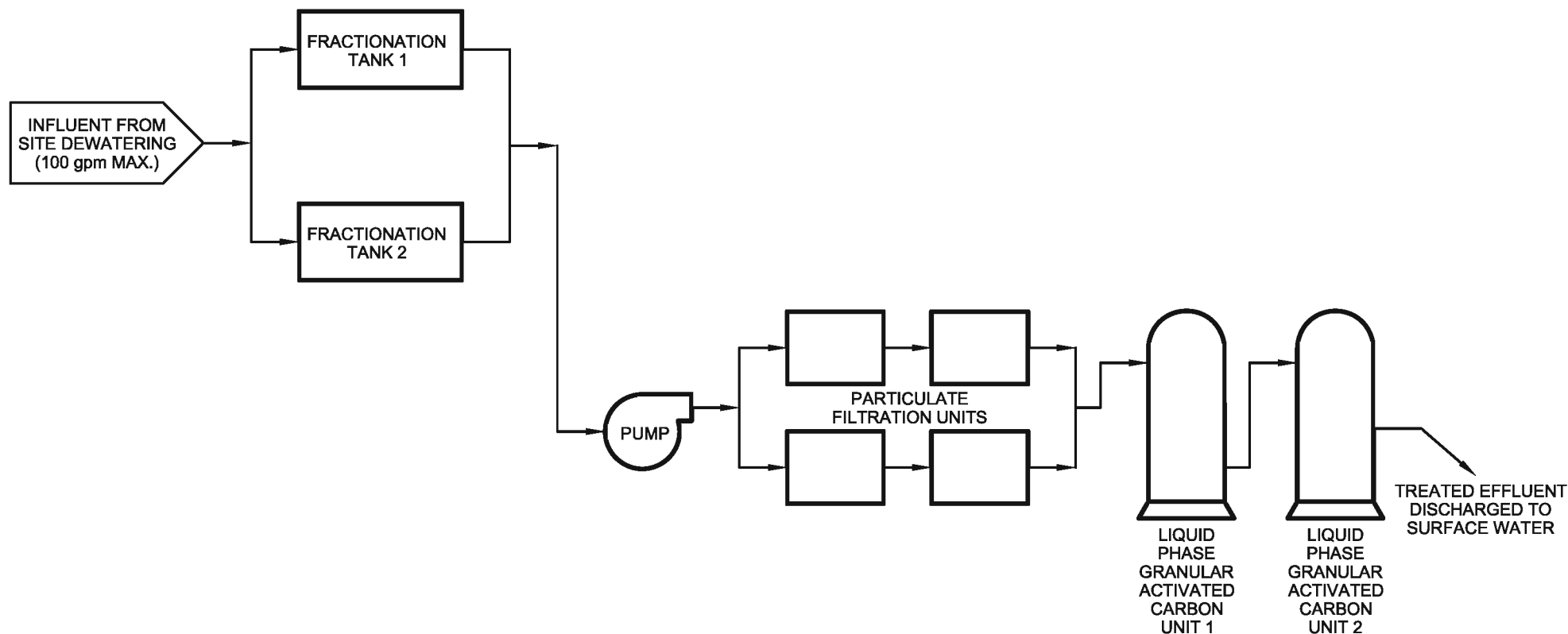
BROOKSIDE TERRACE APARTMENTS
11 VILLAGE DRIVE
SOUTHBRIDGE, MASSACHUSETTS
PROPOSED REMEDIAL ACTION PLAN

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists		PREPARED FOR: BROOKSIDE TERRACE, LLC	
DESIGNED BY: MS	REVIEWED BY: GWM	CHECKED BY: GWM	FIGURE 2
DRAWN BY: MS	SCALE: 1 IN = 50 FT	PROJECT NO: 43532.10	
DATE: 09-24-2009			


UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE REPRODUCED, REUSED, COPIED, OR MODIFIED IN WHOLE OR IN PART FOR ANY OTHER PURPOSE OR PROJECT WITHOUT THE WRITTEN REUSE, OR MODIFICATION TO THE DRAWING SHALL BE AT THE USER'S OR OTHER SUCH PARTIES' SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

ATTACHMENT 4

FIGURE 3 – PROCESS FLOW DIAGRAM



UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

PREPARED BY:  GZA GeoEnvironmental, Inc. Engineers and Scientists ONE EDGEWATER DRIVE Norwood, Massachusetts (PH) 781-278-3700	BROOKSIDE TERRACE APARTMENTS 11 VILLAGE DRIVE SOUTHBRIDGE, MASSACHUSETTS	PROJ MGR: MS	DATE	FIGURE 3
		DESIGNED BY: SC	09-03-2009	
PREPARED FOR: BROOKSIDE TERRACE, LPC	PROCESS FLOW DIAGRAM PROPOSED DEWATERING TREATMENT SYSTEM	REVIEWED BY: GWM	PROJECT NO.	
		DRAWN BY: GAS / EMD	43532.10	
		CHECKED BY: MS	REVISION NO.	
		SCALE: NOT TO SCALE		

ATTACHMENT 5

LABORATORY ANALYTICAL RESULTS



GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

Laboratory Identification Numbers:
MA and ME: **MA092** NH: **2028**
CT: **PH0579** RI: **LAO00236**
NELAC - NYS DOH: **11063**

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
One Edgewater Drive
Norwood, MA 02062

Michele Simoneaux

Project No.: **01.0043532.10**
Work Order No.: **0902-00051**
Date Received: **02/13/2009**
Date Reported: **02/23/2009**

SAMPLE INFORMATION

Date Sampled	Matrix	Laboratory ID	Sample ID
02/12/2009	Aqueous	0902-00051 001	SW-1
02/12/2009	Aqueous	0902-00051 002	SW-1 Dissolved Metals
02/12/2009	Aqueous	0902-00051 003	SW-2



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
One Edgewater Drive
Norwood, MA 02062

Michele Simoneaux

Project Name.: **Brookside Terrace**

Project No.: **01.0043532.10**

Date Received: **02/13/2009**

Date Reported: **02/23/2009**

Work Order No.: **0902-00051**

PROJECT NARRATIVE:

1. Sample Receipt

The samples were received on 02/12/09 via __GZA courier, __EC, __FEDEX, or __x__hand delivered.
The samples were received intact for all requested analyses.

The following questions are answered upon sample receipt to determine compliance with MADEP Defined "Presumptive Certainty":

Were the samples received between 2-6 degrees C (Temperature = 3.9 degrees C)? (x) yes () no

* The temperature requirement for most analyses is above freezing to 6 degrees C.

Were the samples received with method specific preservatives within holding time? (x) yes () no

* The chain of custody indicates that the samples, when required, were chemically preserved in accordance with the method they reference.

Were all constituents for the MCP Method(s) selected assigned on the COC? () yes (x) no

* Full MCP14 Metals () yes (x) no () not assigned

* Full EPA 8270 SVOCs () yes (x) no () not assigned

* Full EPA 8260 or 8021 VOCs (x) yes () no () not assigned

2. Subcontracted Analyses

Analyses for TOC were subcontracted to Rhode Island Analytical, Warwick RI (RIAL);
Certification MA: MA-RI015, NH: 253700 A&B, CT: PH-0508, ME: RI015, RI: RI-033, NY:11726,

Analyses for TPH by 1664, TSS, Total Residual Chlorine, Cyanide and PCB's by 608 were subcontracted to ESS Laboratory, Cranston, RI.

Analyses for low level SVOC's were subcontracted to ConTest Analytical Laboratory, East Longmeadow, MA

The data is included in GZA's report for ease of electronic data transfer and is indicated by "XXX" in the tech column. The data report from the subcontractor is attached.

3. Method SM 18 3500 Cr(D) - Hexavalent Chromium

Attach QC 02/13/09

4. EPA Method 6010B/7470A - Metals

All samples were pre-concentrated 5 times in order to reach the required reporting limits for As (0.005mg/L) and Cu (0.005 mg/L).

Attach QC 6010B 02/17/09 - Aqueous

Attach QC 7470A 02/18/09 - Aqueous

Attach QC 7470A 02/20/09 - Aqueous

5. EPA Method 8260 - VOCs

The continuing calibration verification standard (CCV) (02/12/09 S) had an analyte outside of the 30%D QC acceptance limit. The outlier includes dichlorodifluoromethane (49%).

The Laboratory Control Sample (LCS) (02/12/09 S) had a MA MCP 8260 list analyte outside of the 70-130% QC acceptance limits. Specific outlier includes dichlorodifluoromethane (149%). This analyte was not detected in the associated samples.

The Laboratory Control Sample Duplicate (LCSD) (02/12/09 S) had a MA MCP 8260 list analyte outside of the 70-130% QC acceptance limits. Specific outlier includes dichlorodifluoromethane (152%).

Attach QC 8260 02/18/09 S - Aqueous



GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

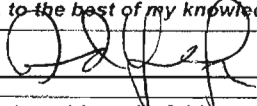
Page 4 of 12

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
One Edgewater Drive
Norwood, MA 02062

Michele Simoneaux

Project Name.: **Brookside Terrace** Date Received: **02/13/2009**
Project No.: **01.0043532.10** Date Reported: **02/23/2009**
Work Order No.: **0902-00051**

MADEP MCP ANALYTICAL METHOD REPORT CERTIFICATION FORM					
Laboratory Name: GZA GeoEnvironmental, Inc.			Project #: 01.0043532.10		
Project Location: Brookside Terrace			MADEP RTN ¹ :		
This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)] 0902-00051					
Sample Matrices: <input type="checkbox"/> Groundwater <input type="checkbox"/> Soil/Sediment <input type="checkbox"/> Drinking Water <input checked="" type="checkbox"/> Other: <u>Surface Water</u>					
MCP SW-846 Methods Used	8260B <input checked="" type="checkbox"/>	8151A ()	8330 ()	6010B ()	7470A/1A <input checked="" type="checkbox"/>
	8270C ()	8081A ()	VPH ()	6020 ()	9014M ² ()
As specified in MADEP Compendium of Analytical Methods. (check all that apply)	8082 ()	8021B ()	EPH ()	7000 S ³ ()	7196A ()
1 List Release Tracking Number (RTN), if known 2 M – SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method 3 S – SW-846 Methods 7000 Series List individual method and analyte.					
An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status					
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	VPH and EPH Methods only: Was the VPH or EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)				<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
A response to questions E and F below is required for "Presumptive Certainty" status					
E	Were all analytical QC performance standards and recommendations for the specified methods achieved?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.					
I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.					
Signature: 			Position: <u>Laboratory Supervisor</u>		
Printed Name: <u>Andrew Yaroshewski</u>			Date: <u>3/5/09</u>		



GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

Page 5 of 12

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
One Edgewater Drive
Norwood, MA 02062

Michele Simoneaux

Project Name.: **Brookside Terrace**
Project No.: **01.0043532.10**

Date Received: **02/13/2009**
Date Reported: **02/23/2009**
Work Order No.: **0902-00051**

LABORATORY STATEMENTS:

NELAC certification, as indicated by the NELAC ID Number, is per analyte. For a complete list of NELAC validated analytes, please contact the laboratory.

Abbreviations:

% R = % Recovery
DF = Dilution Factor
CF = Calculation Factor
DO = Diluted Out

Method Key:

Method 8260: The current version of the method is 8260B.
Method 8270: The current version of the method is 8270D.
Method 6010: The current version of the method is 6010B.

Soil data is reported on a dry weight basis unless otherwise specified.

Matrix Spike / Matrix Spike Duplicate sets are performed as per method and are reported at the end of the analytical report if assigned on the Chain of Custody.



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
One Edgewater Drive
Norwood, MA 02062

Michele Simoneaux

Project Name.: **Brookside Terrace**
Project No.: **01.0043532.10**

Date Received: **02/13/2009**
Date Reported: **02/23/2009**
Work Order No.: **0902-00051**

Sample ID: **SW-1**

Sample No.: **001**

Sample Date: **02/12/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	02/18/2009
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	02/18/2009
Chloromethane	EPA 8260	<2.0	ug/L	MQS	02/18/2009
Vinyl Chloride	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Bromomethane	EPA 8260	<2.0	ug/L	MQS	02/18/2009
Chloroethane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	02/18/2009
Diethylether	EPA 8260	<5.0	ug/L	MQS	02/18/2009
Acetone	EPA 8260	<25	ug/L	MQS	02/18/2009
1,1-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Freon 113	EPA 8260	<2.0	ug/L	MQS	02/18/2009
Carbon Disulfide	EPA 8260	<50	ug/L	MQS	02/18/2009
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	02/18/2009
tert-Butyl alcohol (TBA)	EPA 8260	<25	ug/L	MQS	02/18/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	02/18/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Di-isopropyl ether (DIPE)	EPA 8260	<2.0	ug/L	MQS	02/18/2009
Ethyl tert-butyl ether ETBE	EPA 8260	<2.0	ug/L	MQS	02/18/2009
2-Butanone	EPA 8260	<25	ug/L	MQS	02/18/2009
2,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
cis-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Chloroform	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	02/18/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Benzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
tert-Amyl methyl ether TAME	EPA 8260	<2.0	ug/L	MQS	02/18/2009
Trichloroethene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,4-Dioxane	EPA 8260	<100	ug/L	MQS	02/18/2009
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	02/18/2009



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
One Edgewater Drive
Norwood, MA 02062

Michele Simoneaux

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Date Received: **02/13/2009**
Date Reported: **02/23/2009**
Work Order No.: **0902-00051**

Sample ID: **SW-1**

Sample No.: **001**

Sample Date: **02/12/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Toluene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	02/18/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
2-Hexanone	EPA 8260	<25	ug/L	MQS	02/18/2009
1,3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Tetrachloroethene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	02/18/2009
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	02/18/2009
o-Xylene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Styrene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Bromoform	EPA 8260	<2.0	ug/L	MQS	02/18/2009
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	02/18/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Naphthalene	EPA 8260	<2.0	ug/L	MQS	02/18/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009



ANALYTICAL REPORT

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One Edgewater Drive
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Michele Simoneaux

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Date Received: **02/13/2009**
Date Reported: **02/23/2009**
Work Order No.: **0902-00051**

Sample ID: **SW-1**
Sample Date: **02/12/2009**

Sample No.: **001**

Test Performed	Method	Results	Units	Tech	Analysis Date
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	91.0	% R	MQS	02/18/2009
***Toluene-D8	EPA 8260	99.3	% R	MQS	02/18/2009
***4-Bromofluorobenzene	EPA 8260	100	% R	MQS	02/18/2009
Preparation	EPA 5030B	1.0	CF	MQS	02/18/2009
METALS					
Antimony	EPA 6010B	<0.025	mg/L	LLZ	02/18/2009
Arsenic	EPA 6010B	<0.0050	mg/L	LLZ	02/18/2009
Cadmium	EPA 6010B	<0.0050	mg/L	LLZ	02/18/2009
Chromium	EPA 6010B	<0.0050	mg/L	LLZ	02/18/2009
Lead	EPA 6010B	0.017	mg/L	LLZ	02/18/2009
Nickel	EPA 6010B	<0.0010	mg/L	LLZ	02/18/2009
Selenium	EPA 6010B	<0.025	mg/L	LLZ	02/18/2009
Silver	EPA 6010B	<0.0050	mg/L	LLZ	02/18/2009
Zinc	EPA 6010B	0.039	mg/L	LLZ	02/18/2009
Iron	EPA 6010B	0.94	mg/L	LLZ	02/18/2009
Mercury	EPA 7470A	<0.00020	mg/L	TN	02/20/2009
Hexavalent Chromium	SM 3500CrD	<0.010	mg/L	LLZ	02/13/2009
Copper	EPA 6010B	0.023	mg/L	LLZ	02/18/2009
SUBCONTRACTED ANALYTES					
Total Suspended Solids	SM-2540D	17	mg/L	XXX	02/12/2009
Residual Chlorine	SM4500-Cl D	0.12	mg/L	XXX	02/13/2009
TPH via Method 1664	EPA 1664A	<5	mg/L	XXX	02/20/2009
Total Cyanide	SM 4500 CN CE	<0.0050	mg/L	XXX	02/17/2009
POLYCHLORINATED BIPHENYLS	EPA 608				
Total Organic Carbon	SM-5310B	7	mg/L	XXX	02/17/2009



GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
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Page 9 of 12

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
One Edgewater Drive
Norwood, MA 02062

Michele Simoneaux

Project Name.: **Brookside Terrace**
Project No.: **01.0043532.10**

Date Received: **02/13/2009**
Date Reported: **02/23/2009**
Work Order No.: **0902-00051**

Sample ID: **SW-1 Dissolved Metals**

Sample No.: **002**

Sample Date: **02/12/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
DISSOLVED METALS					
Antimony	EPA 6010B	<0.025	mg/L	LLZ	02/18/2009
Arsenic	EPA 6010B	<0.0050	mg/L	LLZ	02/18/2009
Cadmium	EPA 6010B	<0.0050	mg/L	LLZ	02/18/2009
Chromium	EPA 6010B	<0.0050	mg/L	LLZ	02/18/2009
Copper	EPA 6010B	0.012	mg/L	LLZ	02/18/2009
Lead	EPA 6010B	<0.010	mg/L	LLZ	02/18/2009
Nickel	EPA 6010B	<0.010	mg/L	LLZ	02/18/2009
Selenium	EPA 6010B	<0.025	mg/L	LLZ	02/18/2009
Silver	EPA 6010B	<0.0050	mg/L	LLZ	02/18/2009
Zinc	EPA 6010B	0.015	mg/L	LLZ	02/18/2009
Iron	EPA 6010B	0.24	mg/L	LLZ	02/18/2009
Mercury	EPA 7470A	<0.00020	mg/L	TN	02/18/2009



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
One Edgewater Drive
Norwood, MA 02062

Michele Simoneaux

Project Name.: **Brookside Terrace**
Project No.: **01.0043532.10**

Date Received: **02/13/2009**
Date Reported: **02/23/2009**
Work Order No.: **0902-00051**

Sample ID: **SW-2**

Sample No.: **003**

Sample Date: **02/12/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	02/18/2009
Dichlorodifluoromethane	EPA 8260	<2.0	ug/L	MQS	02/18/2009
Chloromethane	EPA 8260	<2.0	ug/L	MQS	02/18/2009
Vinyl Chloride	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Bromomethane	EPA 8260	<2.0	ug/L	MQS	02/18/2009
Chloroethane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Trichlorofluoromethane	EPA 8260	<2.0	ug/L	MQS	02/18/2009
Diethylether	EPA 8260	<5.0	ug/L	MQS	02/18/2009
Acetone	EPA 8260	<25	ug/L	MQS	02/18/2009
1,1-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Freon 113	EPA 8260	<2.0	ug/L	MQS	02/18/2009
Carbon Disulfide	EPA 8260	<50	ug/L	MQS	02/18/2009
Dichloromethane	EPA 8260	<2.0	ug/L	MQS	02/18/2009
tert-Butyl alcohol (TBA)	EPA 8260	<25	ug/L	MQS	02/18/2009
Methyl-Tert-Butyl-Ether	EPA 8260	<1.0	ug/L	MQS	02/18/2009
trans-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,1-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Di-isopropyl ether (DIPE)	EPA 8260	<2.0	ug/L	MQS	02/18/2009
Ethyl tert-butyl ether ETBE	EPA 8260	<2.0	ug/L	MQS	02/18/2009
2-Butanone	EPA 8260	<25	ug/L	MQS	02/18/2009
2,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
cis-1,2-Dichloroethene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Chloroform	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Bromochloromethane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Tetrahydrofuran	EPA 8260	<10	ug/L	MQS	02/18/2009
1,1,1-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,1-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Carbon Tetrachloride	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,2-Dichloroethane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Benzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
tert-Amyl methyl ether TAME	EPA 8260	<2.0	ug/L	MQS	02/18/2009
Trichloroethene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,4-Dioxane	EPA 8260	<100	ug/L	MQS	02/18/2009
1,2-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Bromodichloromethane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Dibromomethane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
4-Methyl-2-Pentanone	EPA 8260	<25	ug/L	MQS	02/18/2009



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
One Edgewater Drive
Norwood, MA 02062

Michele Simoneaux

Project Name.: **Brookside Terrace**
Project No.: **01.0043532.10**

Date Received: **02/13/2009**
Date Reported: **02/23/2009**
Work Order No.: **0902-00051**

Sample ID: **SW-2**

Sample No.: **003**

Sample Date: **02/12/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
cis-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Toluene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
trans-1,3-Dichloropropene	EPA 8260	<2.0	ug/L	MQS	02/18/2009
1,1,2-Trichloroethane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
2-Hexanone	EPA 8260	<25	ug/L	MQS	02/18/2009
1,3-Dichloropropane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Tetrachloroethene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Dibromochloromethane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,2-Dibromoethane (EDB)	EPA 8260	<2.0	ug/L	MQS	02/18/2009
Chlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,1,1,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Ethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
m&p-Xylene	EPA 8260	<2.0	ug/L	MQS	02/18/2009
o-Xylene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Styrene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Bromoform	EPA 8260	<2.0	ug/L	MQS	02/18/2009
Isopropylbenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,1,2,2-Tetrachloroethane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,2,3-Trichloropropane	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Bromobenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
N-Propylbenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
2-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,3,5-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
4-Chlorotoluene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
tert-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,2,4-Trimethylbenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
sec-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
p-Isopropyltoluene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,3-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,4-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
n-Butylbenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,2-Dichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
1,2-Dibromo-3-Chloropropane	EPA 8260	<5.0	ug/L	MQS	02/18/2009
1,2,4-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Hexachlorobutadiene	EPA 8260	<1.0	ug/L	MQS	02/18/2009
Naphthalene	EPA 8260	<2.0	ug/L	MQS	02/18/2009
1,2,3-Trichlorobenzene	EPA 8260	<1.0	ug/L	MQS	02/18/2009



ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
One Edgewater Drive
Norwood, MA 02062

Michele Simoneaux

Project Name.: **Brookside Terrace**
Project No.: **01.0043532.10**

Date Received: **02/13/2009**
Date Reported: **02/23/2009**
Work Order No.: **0902-00051**

Sample ID: **SW-2**

Sample No.: **003**

Sample Date: **02/12/2009**

Test Performed	Method	Results	Units	Tech	Analysis Date
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	95.3	% R	MQS	02/18/2009
***Toluene-D8	EPA 8260	101	% R	MQS	02/18/2009
***4-Bromofluorobenzene	EPA 8260	101	% R	MQS	02/18/2009
Preparation	EPA 5030B	1.0	CF	MQS	02/18/2009
METALS					
Antimony	EPA 6010B	<0.025	mg/L	LLZ	02/18/2009
Arsenic	EPA 6010B	<0.0050	mg/L	LLZ	02/18/2009
Cadmium	EPA 6010B	<0.0050	mg/L	LLZ	02/18/2009
Chromium	EPA 6010B	0.0060	mg/L	LLZ	02/18/2009
Lead	EPA 6010B	0.024	mg/L	LLZ	02/18/2009
Nickel	EPA 6010B	<0.010	mg/L	LLZ	02/18/2009
Selenium	EPA 6010B	<0.025	mg/L	LLZ	02/18/2009
Silver	EPA 6010B	<0.0050	mg/L	LLZ	02/18/2009
Zinc	EPA 6010B	0.047	mg/L	LLZ	02/18/2009
Iron	EPA 6010B	1.9	mg/L	LLZ	02/18/2009
Mercury	EPA 7470A	<0.00020	mg/L	TN	02/20/2009
Hexavalent Chromium	SM 3500CrD	<0.010	mg/L	LLZ	02/13/2009
Copper	EPA 6010B	0.024	mg/L	LLZ	02/18/2009
SUBCONTRACTED ANALYTES					
Total Suspended Solids	SM-2540D	29	mg/L	XXX	02/12/2009
Residual Chlorine	SM4500-CL,D	0.06	mg/L	XXX	02/13/2009
TPH via Method 1664	EPA 1664A	<5	mg/L	XXX	02/20/2009
Total Cyanide	SM 4500 CN CE	<0.0050	mg/L	XXX	02/17/2009
POLYCHLORINATED BIPHENYLS	EPA 608				

GZA GEOENVIRONMENTAL, INC.
ENVIRONMENTAL CHEMISTRY LABORATORY
106 SOUTH ST, HOPKINTON, MA 01748
MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 7196A/SM 18 3500 CR (d) ANALYSIS
Hexavalent Chromium by Colorometric Method

QUALITY CONTROL - AQUEOUS

Date Prepared: 02/13/09

QC Sample	Method Blank	Lab Control Sample	Lab Control Sample Duplicate	LC/LCD Difference
Units	mg/L	% Recovery	% Recovery	RPD
Acceptance Limits	Results	80-120	80-120	20%
Analyte				
Hex Cr (Cr+6)	<0.010	100	90.0	10.5

RPD = Relative Percent Difference

GZA GEOENVIRONMENTAL, INC.
ENVIRONMENTAL CHEMISTRY LABORATORY
106 SOUTH ST, HOPKINTON, MA 01748
MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 6010B ANALYSIS
Metals by ICP

QUALITY CONTROL - AQUEOUS

DATE PREPARED: 2/17/2009

QC Sample	Method Blank	Lab Control Sample	LC Duplicate	LC/LCD Diff.
Units	mg/L	% Recovery	% Recovery	RPD
Acceptance Limits	Results	80-120	80-120	20%
Analyte				
Silver (Ag)	<0.0050	102	98.5	3.37
Aluminum (Al)	NA	NA	NA	NA
Arsenic (As)	<0.0050	105	104	0.89
Boron (B)	NA	NA	NA	NA
Barium (Ba)	NA	NA	NA	NA
Beryllium (Be)	NA	NA	NA	NA
Calcium (Ca)	NA	NA	NA	NA
Cadmium (Cd)	<0.0050	99.3	98.6	0.66
Cobalt (Co)	NA	NA	NA	NA
Chromium (Cr)	<0.0050	103	101	1.13
Copper (Cu)	<0.0050	116	115	3.41
Iron (Fe)	<0.025	104	105	0.18
Magnesium (Mg)	NA	NA	NA	NA
Manganese (Mn)	NA	NA	NA	NA
Molybdenum (Mo)	NA	NA	NA	NA
Nickel (Ni)	<0.010	103	103	0.10
Lead (Pb)	<0.010	98.8	98.9	0.02
Antimony (Sb)	<0.025	102	102	0.04
Selenium (Se)	<0.025	105	105	0.16
Strontium (Sr)	NA	NA	NA	NA
Titanium (Ti)	NA	NA	NA	NA
Thallium (Tl)	NA	NA	NA	NA
Vanadium (V)	NA	NA	NA	NA
Zinc (Zn)	<0.010	110	106	3.80
Zirconium (Zr)	NA	NA	NA	NA

Matrix Spike / Duplicate Spike performed as per method and reported if assigned on Chain of Custody.

GZA GEOENVIRONMENTAL, INC.
ENVIRONMENTAL CHEMISTRY LABORATORY
106 SOUTH ST, HOPKINTON, MA 01748
MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 7470A ANALYSIS
Mercury by Cold Vapor Atomic Absorption

QUALITY CONTROL - AQUEOUS

Date Prepared: 02/18/09

QC Sample	Method Blank	Lab Control Sample	Lab Control Sample Duplicate	LC/LCD Difference
Units	mg/L	% Recovery	% Recovery	RPD
Acceptance Limits	Results	80-120	80-120	20%
Analyte				
Mercury (Hg)	<0.00020	83.7	86.0	2.71

RPD = Relative Percent Difference

GZA GEOENVIRONMENTAL, INC.
ENVIRONMENTAL CHEMISTRY LABORATORY
106 SOUTH ST, HOPKINTON, MA 01748
MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 7470A ANALYSIS
Mercury by Cold Vapor Atomic Absorption

QUALITY CONTROL - AQUEOUS

Date Prepared: 02/20/09

QC Sample	Method Blank	Lab Control Sample	Lab Control Sample Duplicate	LC/LCD Difference
Units	mg/L	% Recovery	% Recovery	RPD
Acceptance Limits	Results	80-120	80-120	20%
Analyte				
Mercury (Hg)	<0.00020	96.6	99.9	3.38

RPD = Relative Percent Difference

EPA Method 8260 / 524.2 Aqueous Method Blank (MB) and Laboratory Control Sample/Duplicate (LCS/LCSD) Data

Method Blank

Date Analyzed:	2/18/2009	
Conc. ug/L	Acceptance Limit	
dichlorodifluoromethane	< 1.0	< 1.0
chloromethane	< 1.0	< 1.0
vinyl chloride	< 0.5	< 0.5
bromomethane	< 1.0	< 1.0
chloroethane	< 0.5	< 0.5
trichlorofluoromethane	< 1.0	< 1.0
diethyl ether	< 2.5	< 2.5
acetone	< 13	< 13
1,1-dichloroethene	< 0.5	< 0.5
FREON-113	< 1.0	< 1.0
iodomethane	< 0.5	< 0.5
carbon disulfide	< 5.0	< 5.0
dichloromethane	< 1.0	< 1.0
tert-butyl alcohol (TBA)	< 13	< 13
acrylonitrile	< 0.5	< 0.5
methyl-tert-butyl-ether	< 0.5	< 0.5
trans-1,2-dichloroethene	< 0.5	< 0.5
1,1-dichloroethane	< 0.5	< 0.5
di-isopropyl ether (DIPE)	< 1.0	< 1.0
ethyl tert-butyl ether (ETBE)	< 1.0	< 1.0
vinyl acetate	< 13	< 13
2-butanone	< 13	< 13
2,2-dichloropropane	< 0.5	< 0.5
cis-1,2-dichloroethene	< 0.5	< 0.5
chloroform	< 0.5	< 0.5
bromochloromethane	< 0.5	< 0.5
tetrahydrofuran	< 5.0	< 5.0
1,1,1-trichloroethane	< 0.5	< 0.5
1,1-dichloropropene	< 0.5	< 0.5
carbon tetrachloride	< 0.5	< 0.5
1,2-dichloroethane	< 0.5	< 0.5
benzene	< 0.5	< 0.5
tert-amyl methyl ether (TAME)	< 1.0	< 1.0
trichloroethene	< 0.5	< 0.5
1,2-dichloropropane	< 0.5	< 0.5
bromodichloromethane	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50
1,2-dibromomethane	< 0.5	< 0.5
4-methyl-2-pentanone	< 13	< 13
cis-1,3-dichloropropene	< 0.5	< 0.5
toluene	< 0.5	< 0.5
trans-1,3-dichloropropene	< 1.0	< 1.0
1,1,2-trichloroethane	< 0.5	< 0.5
2-hexanone	< 13	< 13
1,3-dichloropropane	< 0.5	< 0.5
tetrachloroethene	< 0.5	< 0.5
1,2-dibromochloromethane	< 0.5	< 0.5
1,2-dibromomethane (EDB)	< 1.0	< 1.0
chlorobenzene	< 0.5	< 0.5
1,1,1,2-tetrachloroethane	< 0.5	< 0.5
ethylbenzene	< 0.5	< 0.5
1,1,2,2-tetrachloroethane	< 0.5	< 0.5
m&p-xylene	< 1.0	< 1.0
o-xylene	< 0.5	< 0.5
styrene	< 0.5	< 0.5
bromoforn	< 1.0	< 1.0
isopropylbenzene	< 0.5	< 0.5
1,2,3-trichloropropane	< 0.5	< 0.5
bromobenzene	< 0.5	< 0.5
n-propylbenzene	< 0.5	< 0.5
2-chlorotoluene	< 0.5	< 0.5
1,3,5-trimethylbenzene	< 0.5	< 0.5
trans-1,4-dichloro-2-butene	< 1.0	< 1.0
4-chlorotoluene	< 0.5	< 0.5
tert-butyl-benzene	< 0.5	< 0.5
1,2,4-trimethylbenzene	< 0.5	< 0.5
sec-butyl-benzene	< 0.5	< 0.5
p-isopropyltoluene	< 0.5	< 0.5
1,3-dichlorobenzene	< 0.5	< 0.5
1,4-dichlorobenzene	< 0.5	< 0.5
n-butylbenzene	< 0.5	< 0.5
1,2-dichlorobenzene	< 0.5	< 0.5
1,2-dibromo-3-chloropropane	< 2.5	< 2.5
1,3,5-trichlorobenzene	< 0.5	< 0.5
1,2,4-trichlorobenzene	< 0.5	< 0.5
hexachlorobutadiene	< 0.5	< 0.5
naphthalene	< 1.0	< 1.0
1,2,3-trichlorobenzene	< 0.5	< 0.5

Laboratory Control Sample

Date Analyzed:	2/18/2009	
Spike Concentration = 20ug/L	% Recovery	Acceptance Limits
dichlorodifluoromethane	149	70-130
chloromethane	111	70-130
vinyl chloride	113	80-120
bromomethane	108	70-130
chloroethane	100	70-130
trichlorofluoromethane	110	70-130
diethyl ether	96.9	70-130
acetone	103	70-130
1,1-dichloroethene	100	80-120
FREON-113	112	70-130
iodomethane	103	70-130
carbon disulfide	130	70-130
dichloromethane	100	70-130
tert-butyl alcohol (TBA)	110	70-130
acrylonitrile	88.8	70-130
methyl-tert-butyl-ether	98.1	70-130
trans-1,2-dichloroethene	102	70-130
1,1-dichloroethane	98.8	70-130
di-isopropyl ether (DIPE)	94.8	70-130
ethyl tert-butyl ether (ETBE)	98.7	70-130
vinyl acetate	91.7	70-130
2-butanone	102	70-130
2,2-dichloropropane	104	70-130
cis-1,2-dichloroethene	99.9	70-130
chloroform	98.1	80-120
bromochloromethane	105	70-130
tetrahydrofuran	112	70-130
1,1,1-trichloroethane	98.5	70-130
1,1-dichloropropene	101	70-130
carbon tetrachloride	102	70-130
1,2-dichloroethane	98.8	70-130
benzene	99.7	70-130
tert-amyl methyl ether (TAME)	102	70-130
trichloroethene	103	70-130
1,2-dichloropropane	95.7	80-120
bromodichloromethane	98.9	70-130
1,4-Dioxane	97.8	70-130
1,2-dibromomethane	108	70-130
4-methyl-2-pentanone	97.3	70-130
cis-1,3-dichloropropene	104	70-130
toluene	99.4	80-120
trans-1,3-dichloropropene	99.9	70-130
1,1,2-trichloroethane	99.1	70-130
2-hexanone	101	70-130
1,3-dichloropropane	102	70-130
tetrachloroethene	108	70-130
1,2-dibromochloromethane	108	70-130
1,2-dibromomethane (EDB)	108	70-130
chlorobenzene	104	70-130
1,1,1,2-tetrachloroethane	103	70-130
ethylbenzene	104	80-120
1,1,2,2-tetrachloroethane	101	70-130
m&p-xylene	100	70-130
o-xylene	92.7	70-130
styrene	105	70-130
bromoforn	103	70-130
isopropylbenzene	111	70-130
1,2,3-trichloropropane	95.5	70-130
bromobenzene	103	70-130
n-propylbenzene	100	70-130
2-chlorotoluene	95.4	70-130
1,3,5-trimethylbenzene	99.4	70-130
trans-1,4-dichloro-2-butene	89.1	70-130
4-chlorotoluene	94.7	70-130
tert-butyl-benzene	117	70-130
1,2,4-trimethylbenzene	94.0	70-130
sec-butyl-benzene	96.9	70-130
p-isopropyltoluene	97.9	70-130
1,3-dichlorobenzene	95.9	70-130
1,4-dichlorobenzene	98.7	70-130
n-butylbenzene	94.8	70-130
1,2-dichlorobenzene	95.0	70-130
1,2-dibromo-3-chloropropane	102	70-130
1,3,5-trichlorobenzene	108	70-130
1,2,4-trichlorobenzene	107	70-130
hexachlorobutadiene	105	70-130
naphthalene	98.3	70-130
1,2,3-trichlorobenzene	102	70-130

Laboratory Control Sample Duplicate

Date Analyzed:	2/18/2009	
% Recovery	Acceptance Limits	Verdict
152	70-130	out
115	70-130	ok
114	70-130	ok
107	70-130	ok
99.7	70-130	ok
112	70-130	ok
95.9	70-130	ok
110	70-130	ok
102	70-130	ok
113	70-130	ok
102	70-130	ok
130	70-130	ok
101	70-130	ok
112	70-130	ok
84.0	70-130	ok
103	70-130	ok
102	70-130	ok
98.3	70-130	ok
98.3	70-130	ok
98.2	70-130	ok
93.3	70-130	ok
99.5	70-130	ok
101	70-130	ok
101	70-130	ok
98.3	70-130	ok
101	70-130	ok
99.7	70-130	ok
98.7	70-130	ok
108	70-130	ok
104	70-130	ok
95.0	70-130	ok
99.9	70-130	ok
98.8	70-130	ok
107	70-130	ok
99.5	70-130	ok
106	70-130	ok
100	70-130	ok
101	70-130	ok
98.0	70-130	ok
102	70-130	ok
102	70-130	ok
108	70-130	ok
107	70-130	ok
108	70-130	ok
103	70-130	ok
102	70-130	ok
105	70-130	ok
102	70-130	ok
100	70-130	ok
108	70-130	ok
104	70-130	ok
92.1	70-130	ok
106	70-130	ok
111	70-130	ok
94.0	70-130	ok
103	70-130	ok
100	70-130	ok
92.3	70-130	ok
99.8	70-130	ok
88.8	70-130	ok
96.3	70-130	ok
94.8	70-130	ok
96.2	70-130	ok
97.5	70-130	ok
97.1	70-130	ok
100	70-130	ok
95.8	70-130	ok
95.4	70-130	ok
104	70-130	ok
107	70-130	ok
109	70-130	ok
107	70-130	ok
99.3	70-130	ok
104	70-130	ok

Acceptance

Surrogates:	Recovery (%)	Acceptance Limits	Surrogates:	Recovery (%)	Acceptance Limits	Verdict	Surrogates:	Recovery (%)	Acceptance Limits	Verdict	RPD	Limits	Verdict
DIBROMOFLUOROMETHANE	102	70-130	DIBROMOFLUOROMETHANE	101	70-130	ok	103	70-130	ok	1.42	<25	ok	
1,2-DICHLOROETHANE-D4	95.0	70-130	1,2-DICHLOROETHANE-D4	105	70-130	ok	105	70-130	ok	0.72	<25	ok	
TOLUENE-D8	99.9	70-130	TOLUENE-D8	101	70-130	ok	102	70-130	ok	0.75	<25	ok	
4-BROMOFLUOROBENZENE	100	70-130	4-BROMOFLUOROBENZENE	103	70-130	ok	105	70-130	ok	2.00	<25	ok	
1,2-DICHLOROBENZENE-D4	102	70-130	1,2-DICHLOROBENZENE-D4	100	70-130	ok	102	70-130	ok	2.03	<25	ok	

W.O. # 0902-00057
(for lab use only)

[illegible]



39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 2/20/2009

GZA GEOENVIRONMENTAL, INC.
106 SOUTH STREET
HOPKINTON, MA 01748-2207
ATTN: E.HUTCHINSON/M.MIRENDA

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 8-32286

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-23271
JOB NUMBER: 01.0043532.10

PROJECT LOCATION: BROOKSIDE TERRACE, SOUTHBRIDGE, MA.

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
01	09B04122	WATER OTHE	SW - 1	8270 h2o low	
02	09B04123	WATER OTHE	SW - 2	8270 h2o low	



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REPORT DATE 2/20/2009

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ATTN: E.HUTCHINSON/M.MIRENDA

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 8-32286

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-23271
JOB NUMBER: 01.0043532.10

Comments :

LIMS BATCH NO. : LIMIT-23271

CASE NARRATIVE SUMMARY

Recommended sample holding times were not exceeded for all samples unless listed below:
None Exceeded

All samples for the method(s) listed were received preserved properly in the proper containers at 4°C +/- 2 degrees as specified on the chain-of-custody form unless listed below:
All properly preserved

In method 8270 for all samples, the benzidine tailing factor was outside of method specifications. Reduced sensitivity and resolution is expected for some base/neutral compounds.

In method 8270, initial and/or continuing calibration did not meet method specifications. For all samples, Pentachloronitrobenzene was calibrated with a relative response factor <0.05.

In method 8270, any reported result for Benzoic Acid and 4-Nitrophenol in all samples is estimated and likely to be biased on the low side based on continuing calibration bias.

In method 8270, any reported result for Benzoic Acid in all samples is likely to be biased on the low side based on laboratory fortified blank (laboratory control sample) recovery bias.

In method 8270, laboratory fortified blank duplicate (laboratory control sample) RPD for 2,4-Dinitrotoluene in all samples is outside of control limits. Reduced precision is anticipated for any reported results for this compound in these samples.

In method 8270, for sample 09B04123, surrogate recovery of Phenol-d6 is outside of control limits. Any reported result from the acid fraction is estimated.

There are no other analytical issues which affect the usability of the data.

DETAILED CASE NARRATIVE

METHOD SW846 8270 - ADDITIONAL DETAILS

In method 8270, for 2-Chloronaphthalene in all samples, data is not affected by continuing calibration non-conformance since bias is on the high side and all results are "not detected".

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative.

Difficult analytes for soil LCS - limits between 10 and 180% depending on the compound (see QC summary report for limits): 3,3'-dichlorobenzidine, pyridine, aniline, 4-chloroaniline, 3-nitroaniline, 2,4-dinitrophenol, and N-nitrosodiphenylamine.

Difficult analytes for water LCS - limits between 10 and 150% depending on the compound (see QC summary report for limits): benzoic acid, dimethylphthalate, bis(2-chloroisopropyl)ether, hexachlorocyclopentadiene, pyridine, 4-nitrophenol, and phenol.



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CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 8-32286

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-23271
JOB NUMBER: 01.0043532.10

Duplicate laboratory fortified blank RPDs were all less than or equal to 20% for water or 30% for soil except for "difficult analytes" where RPDs of 50% are used and/or otherwise listed below or elsewhere in this narrative.

Difficult analytes for water RPDs: aniline, benzoic acid, benzo(a,h)anthracene, dimethylphthalate, hexachlorocyclopentadiene, hexachloroethane, indeno(1,2,3-cd)pyrene, 4,6-dinitro-2-methylphenol, 2,4-dinitrophenol, 4-nitrophenol, 2,4,6-trichlorophenol, pentachlorophenol, and pyridine.

Difficult analytes for soil RPDs: 3,3'-dichlorobenzidine, benzoic acid, 4-nitrophenol, aniline, and pyridine.

In method 8270, for sample 09B04122, surrogate recovery of Phenol-d6 is outside of control limits but within method requirements.

The results of analyses performed are based on samples as submitted to the laboratory and relate only to the items collected and tested.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

AIHA 100033	AIHA ELLAP (LEAD) 100033	NORTH CAROLINA CERT. # 652
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	FLORIDA DOH E871027 (AIR)
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

2/20/09

Tod Kopyscinski
Air Laboratory Manager

Michael Erickson
Assistant Laboratory Director

SIGNATURE

DATE

Edward Denson
Technical Director

Daren Damboragian
Organics Department Supervisor

* See end of data tabulation for notes and comments pertaining to this sample

E.HUTCHINSON/M.MIRENDA
GZA GEOENVIRONMENTAL, INC.
106 SOUTH STREET
HOPKINTON, MA 01748-2207

Purchase Order No.: 8-32286

2/20/2009
Page 1 of 7

Project Location: BROOKSIDE TERRACE, SOUTHBRIDGE, MA.
Date Received: 2/13/2009

LIMS-BAT #: LIMIT-23271
Job Number: 01.0043532.10

Field Sample # : 01

Sample ID : 09B04122 ‡Sampled : 2/12/2009
SW - 1

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acenaphthene	ug/l	ND	02/19/09	BGL	0.30		
Acenaphthylene	ug/l	ND	02/19/09	BGL	0.30		
Acetophenone	ug/l	ND	02/19/09	BGL	10.0		
Aniline	ug/l	ND	02/19/09	BGL	5.00		
Anthracene	ug/l	ND	02/19/09	BGL	0.20		
Benzoic Acid	ug/l	ND	02/19/09	BGL	30.0		
Benzo(a)anthracene	ug/l	0.270	02/19/09	BGL	0.050		
Benzo(a)pyrene	ug/l	0.160	02/19/09	BGL	0.100		
Benzo(b)fluoranthene	ug/l	0.340	02/19/09	BGL	0.050		
Benzo(g,h,i)perylene	ug/l	ND	02/19/09	BGL	0.500		
Benzo(k)fluoranthene	ug/l	ND	02/19/09	BGL	0.200		
Bis(2-chloroethoxy)methane	ug/l	ND	02/19/09	BGL	10.0		
Bis(2-chloroethyl)ether	ug/l	ND	02/19/09	BGL	10.0		
Bis(2-chloroisopropyl)ether	ug/l	ND	02/19/09	BGL	10.0		
Bis(2-ethylhexyl)phthalate	ug/l	ND	02/19/09	BGL	1.00		
4-Bromophenyl phenyl ether	ug/l	ND	02/19/09	BGL	10.0		
Butylbenzylphthalate	ug/l	ND	02/19/09	BGL	20.0		
Carbazole	ug/l	ND	02/19/09	BGL	5.00		
4-Chloroaniline	ug/l	ND	02/19/09	BGL	20.0		
4-Chloro-3-methylphenol	ug/l	ND	02/19/09	BGL	20.0		
2-Chloronaphthalene	ug/l	ND	02/19/09	BGL	10.0		
2-Chlorophenol	ug/l	ND	02/19/09	BGL	10.0		
4-Chlorophenylphenyl ether	ug/l	ND	02/19/09	BGL	10.0		
Chrysene	ug/l	0.22	02/19/09	BGL	0.20		
Dibenzofuran	ug/l	ND	02/19/09	BGL	10.0		
Dibenz(a,h)anthracene	ug/l	ND	02/19/09	BGL	0.200		
1,2-Dichlorobenzene	ug/l	ND	02/19/09	BGL	5.00		
1,3-Dichlorobenzene	ug/l	ND	02/19/09	BGL	5.00		
1,4-Dichlorobenzene	ug/l	ND	02/19/09	BGL	5.00		

RL = Reporting Limit

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NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled

E.HUTCHINSON/M.MIRENDA
GZA GEOENVIRONMENTAL, INC.
106 SOUTH STREET
HOPKINTON, MA 01748-2207

Purchase Order No.: 8-32286

2/20/2009
Page 2 of 7

Project Location: BROOKSIDE TERRACE, SOUTHBRIDGE, MA.
Date Received: 2/13/2009

LIMS-BAT #: LIMIT-23271
Job Number: 01.0043532.10

Field Sample #: 01

Sample ID: 09B04122 ‡Sampled: 2/12/2009
SW - 1

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
3,3-Dichlorobenzidine	ug/l	ND	02/19/09	BGL	10.0		
2,4-Dichlorophenol	ug/l	ND	02/19/09	BGL	10.0		
Diethylphthalate	ug/l	ND	02/19/09	BGL	10.0		
2,4-Dimethylphenol	ug/l	ND	02/19/09	BGL	40.0		
Dimethylphthalate	ug/l	ND	02/19/09	BGL	20.0		
Di-n-butylphthalate	ug/l	ND	02/19/09	BGL	10.0		
Di-n-octylphthalate	ug/l	ND	02/19/09	BGL	20.0		
4,6-Dinitro-2-methylphenol	ug/l	ND	02/19/09	BGL	10.0		
2,4-Dinitrophenol	ug/l	ND	02/19/09	BGL	20.0		
2,4-Dinitrotoluene	ug/l	ND	02/19/09	BGL	10.0		
2,6-Dinitrotoluene	ug/l	ND	02/19/09	BGL	10.0		
1,2-Diphenylhydrazine (as Azobenzene)	ug/l	ND	02/19/09	BGL	10.0		
Fluoranthene	ug/l	0.72	02/19/09	BGL	0.50		
Fluorene	ug/l	ND	02/19/09	BGL	1.00		
Hexachlorobenzene	ug/l	ND	02/19/09	BGL	0.05		
Hexachlorobutadiene	ug/l	ND	02/19/09	BGL	0.20		
Hexachlorocyclopentadiene	ug/l	ND	02/19/09	BGL	20.0		
Hexachloroethane	ug/l	ND	02/19/09	BGL	1.00		
Indeno(1,2,3-cd)pyrene	ug/l	ND	02/19/09	BGL	0.200		
Isophorone	ug/l	ND	02/19/09	BGL	10.0		
o-cresol	ug/l	ND	02/19/09	BGL	10.0		
m & p-Cresol(s)	ug/l	ND	02/19/09	BGL	20.0		
2-Methylnaphthalene	ug/l	ND	02/19/09	BGL	1.00		
Naphthalene	ug/l	ND	02/19/09	BGL	1.00		
2-Nitroaniline	ug/l	ND	02/19/09	BGL	10.0		
3-Nitroaniline	ug/l	ND	02/19/09	BGL	10.0		
4-Nitroaniline	ug/l	ND	02/19/09	BGL	10.0		
Nitrobenzene	ug/l	ND	02/19/09	BGL	10.0		

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GZA GEOENVIRONMENTAL, INC.
106 SOUTH STREET
HOPKINTON, MA 01748-2207

Purchase Order No.: 8-32286

2/20/2009
Page 3 of 7

Project Location: BROOKSIDE TERRACE, SOUTHBRIDGE, MA.
Date Received: 2/13/2009

LIMS-BAT #: LIMIT-23271
Job Number: 01.0043532.10

Field Sample #: 01

Sample ID: 09B04122 ‡Sampled: 2/12/2009
SW - 1

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
2-Nitrophenol	ug/l	ND	02/19/09	BGL	10.0		
4-Nitrophenol	ug/l	ND	02/19/09	BGL	20.0		
N-Nitrosodiphenylamine	ug/l	ND	02/19/09	BGL	10.0		
N-Nitroso-di-n-propylamine	ug/l	ND	02/19/09	BGL	10.0		
Pentachloronitrobenzene	ug/l	ND	02/19/09	BGL	10.0		
Pentachlorophenol	ug/l	ND	02/19/09	BGL	10.0		
Phenanthrene	ug/l	0.82	02/19/09	BGL	0.05		
Phenol	ug/l	ND	02/19/09	BGL	10.0		
Pyrene	ug/l	ND	02/19/09	BGL	1.00		
Pyridine	ug/l	ND	02/19/09	BGL	5.0		
1,2,4,5-Tetrachlorobenzene	ug/l	ND	02/19/09	BGL	10.0		
1,2,4-Trichlorobenzene	ug/l	ND	02/19/09	BGL	5.00		
2,4,5-Trichlorophenol	ug/l	ND	02/19/09	BGL	10.0		
2,4,6-Trichlorophenol	ug/l	ND	02/19/09	BGL	10.0		
Extraction Date 625/8270		2/18/2009	02/19/09	BGL			

Analytical Method:
SW846 8270

SAMPLES ARE EXTRACTED INTO METHYLENE CHLORIDE BY LIQUID/LIQUID EXTRACTION METHOD 3510 C, FOLLOWED BY KUDERNA-DANISH OR TURBOVAP EVAPORATIVE CONCENTRATION AND QUANTITATED BY GC/MS TARGET COMPOUND ANALYSIS.

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Purchase Order No.: 8-32286

2/20/2009
Page 4 of 7

Project Location: BROOKSIDE TERRACE, SOUTHBRIDGE, MA.
Date Received: 2/13/2009

LIMS-BAT #: LIMIT-23271
Job Number: 01.0043532.10

Field Sample # : 02

Sample ID : 09B04123 ‡Sampled : 2/12/2009
SW - 2

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acenaphthene	ug/l	ND	02/19/09	BGL	0.30		
Acenaphthylene	ug/l	ND	02/19/09	BGL	0.30		
Acetophenone	ug/l	ND	02/19/09	BGL	10.0		
Aniline	ug/l	ND	02/19/09	BGL	5.00		
Anthracene	ug/l	0.26	02/19/09	BGL	0.20		
Benzoic Acid	ug/l	ND	02/19/09	BGL	30.0		
Benzo(a)anthracene	ug/l	0.380	02/19/09	BGL	0.050		
Benzo(a)pyrene	ug/l	0.290	02/19/09	BGL	0.100		
Benzo(b)fluoranthene	ug/l	0.530	02/19/09	BGL	0.050		
Benzo(g,h,i)perylene	ug/l	ND	02/19/09	BGL	0.500		
Benzo(k)fluoranthene	ug/l	0.270	02/19/09	BGL	0.200		
Bis(2-chloroethoxy)methane	ug/l	ND	02/19/09	BGL	10.0		
Bis(2-chloroethyl)ether	ug/l	ND	02/19/09	BGL	10.0		
Bis(2-chloroisopropyl)ether	ug/l	ND	02/19/09	BGL	10.0		
Bis(2-ethylhexyl)phthalate	ug/l	ND	02/19/09	BGL	1.00		
4-Bromophenyl phenyl ether	ug/l	ND	02/19/09	BGL	10.0		
Butylbenzylphthalate	ug/l	ND	02/19/09	BGL	20.0		
Carbazole	ug/l	ND	02/19/09	BGL	5.00		
4-Chloroaniline	ug/l	ND	02/19/09	BGL	20.0		
4-Chloro-3-methylphenol	ug/l	ND	02/19/09	BGL	20.0		
2-Chloronaphthalene	ug/l	ND	02/19/09	BGL	10.0		
2-Chlorophenol	ug/l	ND	02/19/09	BGL	10.0		
4-Chlorophenylphenyl ether	ug/l	ND	02/19/09	BGL	10.0		
Chrysene	ug/l	0.38	02/19/09	BGL	0.20		
Dibenzofuran	ug/l	ND	02/19/09	BGL	10.0		
Dibenz(a,h)anthracene	ug/l	ND	02/19/09	BGL	0.200		
1,2-Dichlorobenzene	ug/l	ND	02/19/09	BGL	5.00		
1,3-Dichlorobenzene	ug/l	ND	02/19/09	BGL	5.00		
1,4-Dichlorobenzene	ug/l	ND	02/19/09	BGL	5.00		

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106 SOUTH STREET
HOPKINTON, MA 01748-2207

Purchase Order No.: 8-32286

2/20/2009
Page 5 of 7

Project Location: BROOKSIDE TERRACE, SOUTHBRIDGE, MA.
Date Received: 2/13/2009

LIMS-BAT #: LIMIT-23271
Job Number: 01.0043532.10

Field Sample #: 02

Sample ID: 09B04123 ‡Sampled: 2/12/2009
SW - 2

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
3,3-Dichlorobenzidine	ug/l	ND	02/19/09	BGL	10.0		
2,4-Dichlorophenol	ug/l	ND	02/19/09	BGL	10.0		
Diethylphthalate	ug/l	ND	02/19/09	BGL	10.0		
2,4-Dimethylphenol	ug/l	ND	02/19/09	BGL	40.0		
Dimethylphthalate	ug/l	ND	02/19/09	BGL	20.0		
Di-n-butylphthalate	ug/l	ND	02/19/09	BGL	10.0		
Di-n-octylphthalate	ug/l	ND	02/19/09	BGL	20.0		
4,6-Dinitro-2-methylphenol	ug/l	ND	02/19/09	BGL	10.0		
2,4-Dinitrophenol	ug/l	ND	02/19/09	BGL	20.0		
2,4-Dinitrotoluene	ug/l	ND	02/19/09	BGL	10.0		
2,6-Dinitrotoluene	ug/l	ND	02/19/09	BGL	10.0		
1,2-Diphenylhydrazine (as Azobenzene)	ug/l	ND	02/19/09	BGL	10.0		
Fluoranthene	ug/l	1.46	02/19/09	BGL	0.50		
Fluorene	ug/l	ND	02/19/09	BGL	1.00		
Hexachlorobenzene	ug/l	ND	02/19/09	BGL	0.05		
Hexachlorobutadiene	ug/l	ND	02/19/09	BGL	0.20		
Hexachlorocyclopentadiene	ug/l	ND	02/19/09	BGL	20.0		
Hexachloroethane	ug/l	ND	02/19/09	BGL	1.00		
Indeno(1,2,3-cd)pyrene	ug/l	0.280	02/19/09	BGL	0.200		
Isophorone	ug/l	ND	02/19/09	BGL	10.0		
o-cresol	ug/l	ND	02/19/09	BGL	10.0		
m & p-Cresol(s)	ug/l	ND	02/19/09	BGL	20.0		
2-Methylnaphthalene	ug/l	ND	02/19/09	BGL	1.00		
Naphthalene	ug/l	ND	02/19/09	BGL	1.00		
2-Nitroaniline	ug/l	ND	02/19/09	BGL	10.0		
3-Nitroaniline	ug/l	ND	02/19/09	BGL	10.0		
4-Nitroaniline	ug/l	ND	02/19/09	BGL	10.0		
Nitrobenzene	ug/l	ND	02/19/09	BGL	10.0		

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled

E.HUTCHINSON/M.MIRENDA
GZA GEOENVIRONMENTAL, INC.
106 SOUTH STREET
HOPKINTON, MA 01748-2207

Purchase Order No.: 8-32286

2/20/2009
Page 6 of 7

Project Location: BROOKSIDE TERRACE, SOUTHBRIDGE, MA.
Date Received: 2/13/2009

LIMS-BAT #: LIMIT-23271
Job Number: 01.0043532.10

Field Sample #: 02

Sample ID: 09B04123 ‡Sampled: 2/12/2009
SW - 2

Sample Matrix: WATER OTHER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
2-Nitrophenol	ug/l	ND	02/19/09	BGL	10.0		
4-Nitrophenol	ug/l	ND	02/19/09	BGL	20.0		
N-Nitrosodiphenylamine	ug/l	ND	02/19/09	BGL	10.0		
N-Nitroso-di-n-propylamine	ug/l	ND	02/19/09	BGL	10.0		
Pentachloronitrobenzene	ug/l	ND	02/19/09	BGL	10.0		
Pentachlorophenol	ug/l	ND	02/19/09	BGL	10.0		
Phenanthrene	ug/l	1.35	02/19/09	BGL	0.05		
Phenol	ug/l	ND	02/19/09	BGL	10.0		
Pyrene	ug/l	ND	02/19/09	BGL	1.00		
Pyridine	ug/l	ND	02/19/09	BGL	5.0		
1,2,4,5-Tetrachlorobenzene	ug/l	ND	02/19/09	BGL	10.0		
1,2,4-Trichlorobenzene	ug/l	ND	02/19/09	BGL	5.00		
2,4,5-Trichlorophenol	ug/l	ND	02/19/09	BGL	10.0		
2,4,6-Trichlorophenol	ug/l	ND	02/19/09	BGL	10.0		
Extraction Date 625/8270		2/18/2009	02/19/09	BGL			

Analytical Method:
SW846 8270

SAMPLES ARE EXTRACTED INTO METHYLENE CHLORIDE BY LIQUID/LIQUID EXTRACTION METHOD 3510 C, FOLLOWED BY KUDERNA-DANISH OR TURBOVAP EVAPORATIVE CONCENTRATION AND QUANTITATED BY GC/MS TARGET COMPOUND ANALYSIS.

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Project Location: BROOKSIDE TERRACE, SOUTHBRIDGE, MA.
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2/20/2009
Page 7 of 7

LIMS-BAT #: LIMIT-23271
Job Number: 01.0043532.10

** END OF REPORT **

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/20/2009

Lims Bat #: LIMIT-23271

Page 1 of 19

QC Batch Number: GCMS/SEMI-11942

Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B04122	Phenol-d6	Surrogate Recovery	12.5	%	15-110
	Nitrobenzene-d5	Surrogate Recovery	75.0	%	30-130
	2-Fluorobiphenyl	Surrogate Recovery	73.2	%	30-130
	2,4,6-Tribromophenol	Surrogate Recovery	79.7	%	15-110
	Terphenyl-d14	Surrogate Recovery	75.4	%	30-130
	2-Fluorophenol	Surrogate Recovery	24.2	%	15-110
09B04123	Phenol-d6	Surrogate Recovery	9.0	%	15-110
	Nitrobenzene-d5	Surrogate Recovery	66.3	%	30-130
	2-Fluorobiphenyl	Surrogate Recovery	67.3	%	30-130
	2,4,6-Tribromophenol	Surrogate Recovery	71.5	%	15-110
	Terphenyl-d14	Surrogate Recovery	67.0	%	30-130
	2-Fluorophenol	Surrogate Recovery	17.5	%	15-110
BLANK-129745	1,4-Dichlorobenzene	Blank	<5.00	ug/l	
	Naphthalene	Blank	<1.00	ug/l	
	1,2-Dichlorobenzene	Blank	<5.00	ug/l	
	1,3-Dichlorobenzene	Blank	<5.00	ug/l	
	Acenaphthene	Blank	<0.30	ug/l	
	Acenaphthylene	Blank	<0.30	ug/l	
	Aniline	Blank	<5.00	ug/l	
	Anthracene	Blank	<0.20	ug/l	
	Benzo(a)anthracene	Blank	<0.050	ug/l	
	Benzo(a)pyrene	Blank	<0.100	ug/l	
	Benzo(b)fluoranthene	Blank	<0.050	ug/l	
	Benzo(g,h,i)perylene	Blank	<0.500	ug/l	
	Benzoic Acid	Blank	<30.0	ug/l	
	Bis(2-chloroethyl)ether	Blank	<10.0	ug/l	
	Bis(2-chloroethoxy)methane	Blank	<10.0	ug/l	
	Bis(2-chloroisopropyl)ether	Blank	<10.0	ug/l	
	Bis(2-ethylhexyl)phthalate	Blank	<1.00	ug/l	
	4-Bromophenyl phenyl ether	Blank	<10.0	ug/l	
	Butylbenzylphthalate	Blank	<20.0	ug/l	
	4-Chloroaniline	Blank	<20.0	ug/l	
	2-Chloronaphthalene	Blank	<10.0	ug/l	
	4-Chlorophenylphenyl ether	Blank	<10.0	ug/l	
	Chrysene	Blank	<0.20	ug/l	
	Dibenz(a,h)anthracene	Blank	<0.200	ug/l	
	Dibenzofuran	Blank	<10.0	ug/l	
	3,3-Dichlorobenzidine	Blank	<10.0	ug/l	
	Diethylphthalate	Blank	<10.0	ug/l	
	Dimethylphthalate	Blank	<20.0	ug/l	
	Di-n-butylphthalate	Blank	<10.0	ug/l	

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Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/20/2009

Lims Bat # : LIMIT-23271

Page 2 of 19

QC Batch Number: GCMS/SEMI-11942

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-129745					
	2,4-Dinitrotoluene	Blank	<10.0	ug/l	
	2,6-Dinitrotoluene	Blank	<10.0	ug/l	
	1,2-Diphenylhydrazine (as Azobenzene)	Blank	<10.0	ug/l	
	Di-n-octylphthalate	Blank	<20.0	ug/l	
	Fluoranthene	Blank	<0.50	ug/l	
	Fluorene	Blank	<1.00	ug/l	
	Hexachlorobenzene	Blank	<0.05	ug/l	
	Hexachlorobutadiene	Blank	<0.20	ug/l	
	Hexachlorocyclopentadiene	Blank	<20.0	ug/l	
	Hexachloroethane	Blank	<1.00	ug/l	
	Indeno(1,2,3-cd)pyrene	Blank	<0.200	ug/l	
	Isophorone	Blank	<10.0	ug/l	
	2-Methylnaphthalene	Blank	<1.00	ug/l	
	2-Nitroaniline	Blank	<10.0	ug/l	
	3-Nitroaniline	Blank	<10.0	ug/l	
	Nitrobenzene	Blank	<10.0	ug/l	
	N-Nitroso-di-n-propylamine	Blank	<10.0	ug/l	
	N-Nitrosodiphenylamine	Blank	<10.0	ug/l	
	Phenanthrene	Blank	<0.05	ug/l	
	Pyrene	Blank	<1.00	ug/l	
	1,2,4-Trichlorobenzene	Blank	<5.00	ug/l	
	4-Chloro-3-methylphenol	Blank	<20.0	ug/l	
	2-Chlorophenol	Blank	<10.0	ug/l	
	2,4-Dichlorophenol	Blank	<10.0	ug/l	
	2,4-Dimethylphenol	Blank	<40.0	ug/l	
	4,6-Dinitro-2-methylphenol	Blank	<10.0	ug/l	
	2,4-Dinitrophenol	Blank	<20.0	ug/l	
	o-cresol	Blank	<10.0	ug/l	
	m & p-Cresol(s)	Blank	<20.0	ug/l	
	2-Nitrophenol	Blank	<10.0	ug/l	
	4-Nitrophenol	Blank	<20.0	ug/l	
	Phenol	Blank	<10.0	ug/l	
	2,4,5-Trichlorophenol	Blank	<10.0	ug/l	
	2,4,6-Trichlorophenol	Blank	<10.0	ug/l	
	Pentachlorophenol	Blank	<10.0	ug/l	
	Pyridine	Blank	<5.0	ug/l	
	Benzo(k)fluoranthene	Blank	<0.200	ug/l	
	4-Nitroaniline	Blank	<10.0	ug/l	
	Acetophenone	Blank	<10.0	ug/l	
	Carbazole	Blank	<5.00	ug/l	
	Pentachloronitribenzene	Blank	<10.0	ug/l	
	1,2,4,5-Tetrachlorobenzene	Blank	<10.0	ug/l	

LFBLANK-91848

QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/20/2009

Lims Bat #: LIMIT-23271

Page 3 of 19

QC Batch Number: GCMS/SEMI-11942

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-91848	1,4-Dichlorobenzene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	61.80	ug/l	
		Lab Fort Blk. % Rec.	61.80	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	59.55	ug/l	
		Dup Lab Fort Bl %Rec	59.55	%	
		Lab Fort Blank Range	2.25	units	
		Lab Fort Bl. Av. Rec	60.67	%	
		LFB Duplicate RPD	3.70	%	0-20
	Naphthalene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	63.28	ug/l	
		Lab Fort Blk. % Rec.	63.28	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	60.88	ug/l	
		Dup Lab Fort Bl %Rec	60.88	%	
		Lab Fort Blank Range	2.39	units	
		Lab Fort Bl. Av. Rec	62.08	%	
		LFB Duplicate RPD	3.86	%	0-20
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	61.28	ug/l	
		Lab Fort Blk. % Rec.	61.28	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	59.67	ug/l	
		Dup Lab Fort Bl %Rec	59.67	%	
		Lab Fort Blank Range	1.60	units	
		Lab Fort Bl. Av. Rec	60.47	%	
		LFB Duplicate RPD	2.66	%	0-20
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	61.41	ug/l	
		Lab Fort Blk. % Rec.	61.41	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	58.70	ug/l	
		Dup Lab Fort Bl %Rec	58.70	%	
		Lab Fort Blank Range	2.71	units	
		Lab Fort Bl. Av. Rec	60.05	%	
		LFB Duplicate RPD	4.51	%	0-20
	Acenaphthene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	64.92	ug/l	
		Lab Fort Blk. % Rec.	64.92	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	61.76	ug/l	
		Dup Lab Fort Bl %Rec	61.76	%	
		Lab Fort Blank Range	3.16	units	

QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/20/2009

Lims Bat #: LIMIT-23271

Page 4 of 19

QC Batch Number: GCMS/SEMI-11942

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-91848	Acenaphthene	Lab Fort Bl. Av. Rec	63.34	%	0-20
		LFB Duplicate RPD	4.98	%	
	Acenaphthylene	Lab Fort Blank Amt.	100.00	ug/l	40-140
		Lab Fort Blk. Found	64.56	ug/l	
		Lab Fort Blk. % Rec.	64.56	%	
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	61.39	ug/l	
		Dup Lab Fort Bl %Rec	61.39	%	
		Lab Fort Blank Range	3.17	units	
		Lab Fort Bl. Av. Rec	62.97	%	
		LFB Duplicate RPD	5.03	%	
		Lab Fort Blank Amt.	100.00	ug/l	
	Aniline	Lab Fort Blk. Found	50.74	ug/l	40-140
		Lab Fort Blk. % Rec.	50.74	%	
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	50.35	ug/l	
		Dup Lab Fort Bl %Rec	50.35	%	
		Lab Fort Blank Range	0.38	units	
		Lab Fort Bl. Av. Rec	50.54	%	
		LFB Duplicate RPD	0.77	%	
		Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	64.42	ug/l	
	Anthracene	Lab Fort Blk. % Rec.	64.42	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	59.80	ug/l	
		Dup Lab Fort Bl %Rec	59.80	%	
		Lab Fort Blank Range	4.62	units	
		Lab Fort Bl. Av. Rec	62.11	%	
		LFB Duplicate RPD	7.43	%	
		Lab Fort Blank Amt.	100.000	ug/l	
		Lab Fort Blk. Found	70.140	ug/l	
		Lab Fort Blk. % Rec.	70.140	%	
	Benzo(a)anthracene	Dup Lab Fort Bl Amt.	100.000	ug/l	40-140
		Dup Lab Fort Bl. Fnd	67.120	ug/l	
		Dup Lab Fort Bl %Rec	67.120	%	
		Lab Fort Blank Range	3.020	units	
		Lab Fort Bl. Av. Rec	68.630	%	
		LFB Duplicate RPD	4.400	%	
		Lab Fort Blank Amt.	100.000	ug/l	
		Lab Fort Blk. Found	75.790	ug/l	
		Lab Fort Blk. % Rec.	75.790	%	
		Dup Lab Fort Bl Amt.	100.000	ug/l	
	Benzo(a)pyrene	Dup Lab Fort Bl. Fnd	70.930	ug/l	40-140

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Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/20/2009

Lims Bat #: LIMIT-23271

Page 5 of 19

QC Batch Number: GCMS/SEMI-11942

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-91848					
Benzo(a)pyrene		Dup Lab Fort Bl %Rec	70.930	%	
		Lab Fort Blank Range	4.860	units	
		Lab Fort Bl. Av. Rec	73.360	%	
		LFB Duplicate RPD	6.624	%	0-20
		Lab Fort Blank Amt.	100.000	ug/l	
		Lab Fort Blk. Found	76.430	ug/l	
		Lab Fort Blk. % Rec.	76.430	%	40-140
		Dup Lab Fort Bl Amt.	100.000	ug/l	
		Dup Lab Fort Bl. Fnd	76.200	ug/l	
		Dup Lab Fort Bl %Rec	76.200	%	
Benzo(b)fluoranthene		Lab Fort Blank Range	0.229	units	
		Lab Fort Bl. Av. Rec	76.315	%	
		LFB Duplicate RPD	0.301	%	0-20
		Lab Fort Blank Amt.	100.000	ug/l	
		Lab Fort Blk. Found	62.290	ug/l	
		Lab Fort Blk. % Rec.	62.290	%	40-140
		Dup Lab Fort Bl Amt.	100.000	ug/l	
		Dup Lab Fort Bl. Fnd	57.390	ug/l	
		Dup Lab Fort Bl %Rec	57.390	%	
		Lab Fort Blank Range	4.900	units	
Benzo(g,h,i)perylene		Lab Fort Bl. Av. Rec	59.840	%	
		LFB Duplicate RPD	8.188	%	0-20
		Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	0.10	ug/l	
		Lab Fort Blk. % Rec.	0.10	%	10-130
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	0.10	ug/l	
		Dup Lab Fort Bl %Rec	0.10	%	
		Lab Fort Blank Range	0.00	units	
		Lab Fort Bl. Av. Rec	0.10	%	
Benzoic Acid		LFB Duplicate RPD	0.00	%	0-50
		Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	82.56	ug/l	
		Lab Fort Blk. % Rec.	82.56	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	81.59	ug/l	
		Dup Lab Fort Bl %Rec	81.59	%	
		Lab Fort Blank Range	0.96	units	
		Lab Fort Bl. Av. Rec	82.08	%	
		LFB Duplicate RPD	1.16	%	0-20
Bis(2-chloroethyl)ether		Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	75.47	ug/l	
		Lab Fort Blk. % Rec.	75.47	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	75.47	ug/l	
		Dup Lab Fort Bl %Rec	75.47	%	
		Lab Fort Blank Range	0.96	units	
		Lab Fort Bl. Av. Rec	82.08	%	
		LFB Duplicate RPD	1.16	%	0-20
		Lab Fort Blank Amt.	100.00	ug/l	
Bis(2-chloroethoxy)methane		Lab Fort Blk. Found	75.47	ug/l	
		Lab Fort Blk. % Rec.	75.47	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	

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Method Blanks

Report Date: 2/20/2009

Lims Bat #: LIMIT-23271

Page 6 of 19

QC Batch Number: GCMS/SEMI-11942

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-91848	Bis(2-chloroethoxy)methane	Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	73.55	ug/l	
		Dup Lab Fort Bl %Rec	73.55	%	
		Lab Fort Blank Range	1.92	units	
		Lab Fort Bl. Av. Rec	74.51	%	
		LFB Duplicate RPD	2.57	%	0-20
	Bis(2-chloroisopropyl)ether	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	58.06	ug/l	
		Lab Fort Blk. % Rec.	58.06	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	55.45	ug/l	
		Dup Lab Fort Bl %Rec	55.45	%	
	Bis(2-ethylhexyl)phthalate	Lab Fort Blank Range	2.61	units	
		Lab Fort Bl. Av. Rec	56.75	%	
		LFB Duplicate RPD	4.59	%	0-20
		Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	61.93	ug/l	
		Lab Fort Blk. % Rec.	61.93	%	40-140
	4-Bromophenyl phenyl ether	Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	59.23	ug/l	
		Dup Lab Fort Bl %Rec	59.23	%	
		Lab Fort Blank Range	2.70	units	
		Lab Fort Bl. Av. Rec	60.58	%	
		LFB Duplicate RPD	4.45	%	0-20
	Butylbenzylphthalate	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	78.97	ug/l	
		Lab Fort Blk. % Rec.	78.97	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	75.38	ug/l	
		Dup Lab Fort Bl %Rec	75.38	%	
	4-Chloroaniline	Lab Fort Blank Range	3.59	units	
		Lab Fort Bl. Av. Rec	77.17	%	
		LFB Duplicate RPD	4.65	%	0-20
		Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	66.51	ug/l	
		Lab Fort Blk. % Rec.	66.51	%	40-140

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Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/20/2009

Lims Bat #: LIMIT-23271

Page 7 of 19

QC Batch Number: GCMS/SEMI-11942

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-91848	4-Chloroaniline	Lab Fort Blk. Found	64.47	ug/l	
		Lab Fort Blk. % Rec.	64.47	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	64.65	ug/l	
		Dup Lab Fort Bl %Rec	64.65	%	
		Lab Fort Blank Range	0.18	units	
		Lab Fort Bl. Av. Rec	64.56	%	
	2-Chloronaphthalene	LFB Duplicate RPD	0.27	%	0-20
		Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	60.39	ug/l	
		Lab Fort Blk. % Rec.	60.39	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	58.15	ug/l	
		Dup Lab Fort Bl %Rec	58.15	%	
	4-Chlorophenylphenyl ether	Lab Fort Blank Range	2.24	units	
		Lab Fort Bl. Av. Rec	59.27	%	
		LFB Duplicate RPD	3.77	%	0-20
		Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	73.14	ug/l	
		Lab Fort Blk. % Rec.	73.14	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
	Chrysene	Dup Lab Fort Bl. Fnd	69.54	ug/l	
		Dup Lab Fort Bl %Rec	69.54	%	
		Lab Fort Blank Range	3.60	units	
		Lab Fort Bl. Av. Rec	71.34	%	
		LFB Duplicate RPD	5.04	%	0-20
		Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	65.28	ug/l	
	Dibenz(a,h)anthracene	Lab Fort Blk. % Rec.	65.28	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	62.18	ug/l	
		Dup Lab Fort Bl %Rec	62.18	%	
		Lab Fort Blank Range	3.10	units	
		Lab Fort Bl. Av. Rec	63.73	%	
		LFB Duplicate RPD	4.86	%	0-20
		Lab Fort Blank Amt.	100.000	ug/l	
		Lab Fort Blk. Found	75.650	ug/l	
		Lab Fort Blk. % Rec.	75.650	%	40-140
		Dup Lab Fort Bl Amt.	100.000	ug/l	
		Dup Lab Fort Bl. Fnd	71.180	ug/l	
		Dup Lab Fort Bl %Rec	71.180	%	
		Lab Fort Blank Range	4.470	units	
		Lab Fort Bl. Av. Rec	73.415	%	

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/20/2009

Lims Bat #: LIMIT-23271

Page 8 of 19

QC Batch Number: GCMS/SEMI-11942

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-91848	Dibenz(a,h)anthracene	LFB Duplicate RPD	6.088	%	0-20
		Lab Fort Blank Amt.	100.00	ug/l	
	Dibenzofuran	Lab Fort Blk. Found	74.42	ug/l	
		Lab Fort Blk. % Rec.	74.42	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	71.25	ug/l	
		Dup Lab Fort Bl %Rec	71.25	%	
		Lab Fort Blank Range	3.16	units	
		Lab Fort Bl. Av. Rec	72.83	%	
		LFB Duplicate RPD	4.35	%	0-20
	3,3-Dichlorobenzidine	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	68.86	ug/l	
		Lab Fort Blk. % Rec.	68.86	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	66.59	ug/l	
		Dup Lab Fort Bl %Rec	66.59	%	
		Lab Fort Blank Range	2.26	units	
		Lab Fort Bl. Av. Rec	67.73	%	
		LFB Duplicate RPD	3.33	%	0-20
		Lab Fort Blank Amt.	100.00	ug/l	
	Diethylphthalate	Lab Fort Blk. Found	71.14	ug/l	
		Lab Fort Blk. % Rec.	71.14	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	67.45	ug/l	
		Dup Lab Fort Bl %Rec	67.45	%	
		Lab Fort Blank Range	3.67	units	
		Lab Fort Bl. Av. Rec	69.30	%	
		LFB Duplicate RPD	5.31	%	0-20
	Dimethylphthalate	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	77.84	ug/l	
		Lab Fort Blk. % Rec.	77.84	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	74.36	ug/l	
		Dup Lab Fort Bl %Rec	74.36	%	
		Lab Fort Blank Range	3.47	units	
		Lab Fort Bl. Av. Rec	76.09	%	
		LFB Duplicate RPD	4.57	%	0-50
		Lab Fort Blank Amt.	100.00	ug/l	
	Di-n-butylphthalate	Lab Fort Blk. Found	68.48	ug/l	
		Lab Fort Blk. % Rec.	68.48	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	64.53	ug/l	
		Dup Lab Fort Bl %Rec	64.53	%	

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/20/2009

Lims Bat #: LIMIT-23271

Page 9 of 19

QC Batch Number: GCMS/SEMI-11942

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-91848					
Di-n-butylphthalate		Lab Fort Blank Range	3.94	units	
		Lab Fort Bl. Av. Rec	66.50	%	
		LFB Duplicate RPD	5.93	%	0-20
		Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	81.56	ug/l	
		Lab Fort Blk. % Rec.	81.56	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	66.59	ug/l	
		Dup Lab Fort Bl %Rec	66.59	%	
		Lab Fort Blank Range	14.97	units	
2,4-Dinitrotoluene		Lab Fort Bl. Av. Rec	74.08	%	
		LFB Duplicate RPD	20.20	%	0-20
		Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	63.90	ug/l	
		Lab Fort Blk. % Rec.	63.90	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	60.27	ug/l	
		Dup Lab Fort Bl %Rec	60.27	%	
		Lab Fort Blank Range	3.63	units	
		Lab Fort Bl. Av. Rec	62.08	%	
2,6-Dinitrotoluene		LFB Duplicate RPD	5.84	%	0-20
		Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	87.27	ug/l	
		Lab Fort Blk. % Rec.	87.27	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	81.95	ug/l	
		Dup Lab Fort Bl %Rec	81.95	%	
		Lab Fort Blank Range	5.32	units	
		Lab Fort Bl. Av. Rec	84.61	%	
		LFB Duplicate RPD	6.28	%	0-20
1,2-Diphenylhydrazine (as Azobenzene)		Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	75.50	ug/l	
		Lab Fort Blk. % Rec.	75.50	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	71.09	ug/l	
		Dup Lab Fort Bl %Rec	71.09	%	
		Lab Fort Blank Range	4.40	units	
		Lab Fort Bl. Av. Rec	73.29	%	
		LFB Duplicate RPD	6.01	%	0-20
		Lab Fort Blank Amt.	100.00	ug/l	
Di-n-octylphthalate		Lab Fort Blk. Found	68.16	ug/l	
		Lab Fort Blk. % Rec.	68.16	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
Fluoranthene		Lab Fort Blank Range	4.40	units	
		Lab Fort Bl. Av. Rec	73.29	%	
		LFB Duplicate RPD	6.01	%	0-20
		Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	68.16	ug/l	
		Lab Fort Blk. % Rec.	68.16	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/20/2009

Lims Bat #: LIMIT-23271

Page 10 of 19

QC Batch Number: GCMS/SEMI-11942

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-91848	Fluoranthene	Dup Lab Fort Bl. Fnd	64.06	ug/l	
		Dup Lab Fort Bl %Rec	64.06	%	
		Lab Fort Blank Range	4.09	units	
		Lab Fort Bl. Av. Rec	66.11	%	
		LFB Duplicate RPD	6.20	%	0-20
	Fluorene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	67.48	ug/l	
		Lab Fort Blk. % Rec.	67.48	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	63.62	ug/l	
		Dup Lab Fort Bl %Rec	63.62	%	
		Lab Fort Blank Range	3.85	units	
		Lab Fort Bl. Av. Rec	65.55	%	
		LFB Duplicate RPD	5.88	%	0-20
	Hexachlorobenzene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	77.97	ug/l	
		Lab Fort Blk. % Rec.	77.97	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	74.77	ug/l	
		Dup Lab Fort Bl %Rec	74.77	%	
		Lab Fort Blank Range	3.19	units	
		Lab Fort Bl. Av. Rec	76.37	%	
		LFB Duplicate RPD	4.19	%	0-20
	Hexachlorobutadiene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	68.48	ug/l	
		Lab Fort Blk. % Rec.	68.48	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	66.11	ug/l	
		Dup Lab Fort Bl %Rec	66.11	%	
		Lab Fort Blank Range	2.37	units	
		Lab Fort Bl. Av. Rec	67.30	%	
		LFB Duplicate RPD	3.53	%	0-20
	Hexachlorocyclopentadiene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	61.15	ug/l	
		Lab Fort Blk. % Rec.	61.15	%	30-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	62.18	ug/l	
		Dup Lab Fort Bl %Rec	62.18	%	
		Lab Fort Blank Range	1.03	units	
		Lab Fort Bl. Av. Rec	61.66	%	
		LFB Duplicate RPD	1.67	%	0-50
	Hexachloroethane	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	58.49	ug/l	

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/20/2009

Lims Bat #: LIMIT-23271

Page 11 of 19

QC Batch Number: GCMS/SEMI-11942

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-91848	Hexachloroethane	Lab Fort Blk. % Rec.	58.49	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	56.32	ug/l	
		Dup Lab Fort Bl %Rec	56.32	%	
		Lab Fort Blank Range	2.16	units	
		Lab Fort Bl. Av. Rec	57.40	%	
		LFB Duplicate RPD	3.78	%	0-50
	Indeno(1,2,3-cd)pyrene	Lab Fort Blank Amt.	100.000	ug/l	
		Lab Fort Blk. Found	80.880	ug/l	
		Lab Fort Blk. % Rec.	80.880	%	40-140
		Dup Lab Fort Bl Amt.	100.000	ug/l	
		Dup Lab Fort Bl. Fnd	76.660	ug/l	
		Dup Lab Fort Bl %Rec	76.660	%	
		Lab Fort Blank Range	4.220	units	
		Lab Fort Bl. Av. Rec	78.770	%	
		LFB Duplicate RPD	5.357	%	0-50
	Isophorone	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	78.89	ug/l	
		Lab Fort Blk. % Rec.	78.89	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	77.80	ug/l	
		Dup Lab Fort Bl %Rec	77.80	%	
		Lab Fort Blank Range	1.09	units	
		Lab Fort Bl. Av. Rec	78.34	%	
		LFB Duplicate RPD	1.39	%	0-20
	2-Methylnaphthalene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	65.28	ug/l	
		Lab Fort Blk. % Rec.	65.28	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	63.69	ug/l	
		Dup Lab Fort Bl %Rec	63.69	%	
		Lab Fort Blank Range	1.59	units	
		Lab Fort Bl. Av. Rec	64.48	%	
		LFB Duplicate RPD	2.46	%	0-20
	2-Nitroaniline	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	79.48	ug/l	
		Lab Fort Blk. % Rec.	79.48	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	76.73	ug/l	
		Dup Lab Fort Bl %Rec	76.73	%	
		Lab Fort Blank Range	2.76	units	
		Lab Fort Bl. Av. Rec	78.11	%	
		LFB Duplicate RPD	3.53	%	0-20

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/20/2009

Lims Bat #: LIMIT-23271

Page 12 of 19

QC Batch Number: GCMS/SEMI-11942

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-91848	3-Nitroaniline	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	57.45	ug/l	
		Lab Fort Blk. % Rec.	57.45	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	55.35	ug/l	
		Dup Lab Fort Bl %Rec	55.35	%	
		Lab Fort Blank Range	2.10	units	
		Lab Fort Bl. Av. Rec	56.40	%	
		LFB Duplicate RPD	3.72	%	0-20
	Nitrobenzene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	73.70	ug/l	
		Lab Fort Blk. % Rec.	73.70	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	71.81	ug/l	
		Dup Lab Fort Bl %Rec	71.81	%	
		Lab Fort Blank Range	1.88	units	
		Lab Fort Bl. Av. Rec	72.75	%	
		LFB Duplicate RPD	2.59	%	0-20
	N-Nitroso-di-n-propylamine	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	70.38	ug/l	
		Lab Fort Blk. % Rec.	70.38	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	67.40	ug/l	
		Dup Lab Fort Bl %Rec	67.40	%	
		Lab Fort Blank Range	2.97	units	
		Lab Fort Bl. Av. Rec	68.89	%	
		LFB Duplicate RPD	4.32	%	0-20
	N-Nitrosodiphenylamine	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	88.94	ug/l	
		Lab Fort Blk. % Rec.	88.94	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	84.24	ug/l	
		Dup Lab Fort Bl %Rec	84.24	%	
		Lab Fort Blank Range	4.70	units	
		Lab Fort Bl. Av. Rec	86.59	%	
		LFB Duplicate RPD	5.42	%	0-20
	Phenanthrene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	75.39	ug/l	
		Lab Fort Blk. % Rec.	75.39	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	71.98	ug/l	
		Dup Lab Fort Bl %Rec	71.98	%	
		Lab Fort Blank Range	3.40	units	

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/20/2009

Lims Bat #: LIMIT-23271

Page 13 of 19

QC Batch Number: GCMS/SEMI-11942

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-91848	Phenanthrene	Lab Fort Bl. Av. Rec	73.69	%	0-20
		LFB Duplicate RPD	4.61	%	
	Pyrene	Lab Fort Blank Amt.	100.00	ug/l	40-140
		Lab Fort Blk. Found	67.40	ug/l	
		Lab Fort Blk. % Rec.	67.40	%	
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	65.30	ug/l	
		Dup Lab Fort Bl %Rec	65.30	%	
		Lab Fort Blank Range	2.10	units	
		Lab Fort Bl. Av. Rec	66.34	%	
		LFB Duplicate RPD	3.16	%	
		Lab Fort Blank Amt.	100.00	ug/l	40-140
	1,2,4-Trichlorobenzene	Lab Fort Blk. Found	71.25	ug/l	
		Lab Fort Blk. % Rec.	71.25	%	
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	68.68	ug/l	
		Dup Lab Fort Bl %Rec	68.68	%	
		Lab Fort Blank Range	2.57	units	
		Lab Fort Bl. Av. Rec	69.96	%	
		LFB Duplicate RPD	3.67	%	
		Lab Fort Blank Amt.	100.00	ug/l	30-130
	4-Chloro-3-methylphenol	Lab Fort Blk. Found	71.41	ug/l	
		Lab Fort Blk. % Rec.	71.41	%	
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	70.36	ug/l	
		Dup Lab Fort Bl %Rec	70.36	%	
		Lab Fort Blank Range	1.05	units	
		Lab Fort Bl. Av. Rec	70.88	%	
		LFB Duplicate RPD	1.48	%	
		Lab Fort Blank Amt.	100.00	ug/l	30-130
	2-Chlorophenol	Lab Fort Blk. Found	60.46	ug/l	
		Lab Fort Blk. % Rec.	60.46	%	
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	58.59	ug/l	
		Dup Lab Fort Bl %Rec	58.59	%	
		Lab Fort Blank Range	1.87	units	
		Lab Fort Bl. Av. Rec	59.52	%	
		LFB Duplicate RPD	3.14	%	
		Lab Fort Blank Amt.	100.00	ug/l	30-130
	2,4-Dichlorophenol	Lab Fort Blk. Found	69.98	ug/l	
		Lab Fort Blk. % Rec.	69.98	%	
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	69.34	ug/l	

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/20/2009

Lims Bat #: LIMIT-23271

Page 14 of 19

QC Batch Number: GCMS/SEMI-11942

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-91848					
	2,4-Dichlorophenol	Dup Lab Fort Bl %Rec	69.34	%	
		Lab Fort Blank Range	0.64	units	
		Lab Fort Bl. Av. Rec	69.67	%	
		LFB Duplicate RPD	0.91	%	0-20
	2,4-Dimethylphenol	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	65.29	ug/l	
		Lab Fort Blk. % Rec.	65.29	%	30-130
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	66.23	ug/l	
		Dup Lab Fort Bl %Rec	66.23	%	
		Lab Fort Blank Range	0.93	units	
		Lab Fort Bl. Av. Rec	65.76	%	
		LFB Duplicate RPD	1.42	%	0-20
	4,6-Dinitro-2-methylphenol	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	72.45	ug/l	
		Lab Fort Blk. % Rec.	72.45	%	30-130
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	62.92	ug/l	
		Dup Lab Fort Bl %Rec	62.92	%	
		Lab Fort Blank Range	9.54	units	
		Lab Fort Bl. Av. Rec	67.69	%	
		LFB Duplicate RPD	14.09	%	0-50
	2,4-Dinitrophenol	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	74.56	ug/l	
		Lab Fort Blk. % Rec.	74.56	%	30-130
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	67.98	ug/l	
		Dup Lab Fort Bl %Rec	67.98	%	
		Lab Fort Blank Range	6.58	units	
		Lab Fort Bl. Av. Rec	71.28	%	
		LFB Duplicate RPD	9.23	%	0-50
	o-cresol	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	59.31	ug/l	
		Lab Fort Blk. % Rec.	59.31	%	30-130
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	58.47	ug/l	
		Dup Lab Fort Bl %Rec	58.47	%	
		Lab Fort Blank Range	0.83	units	
		Lab Fort Bl. Av. Rec	58.89	%	
		LFB Duplicate RPD	1.42	%	0-20
	m & p-Cresol(s)	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	60.73	ug/l	
		Lab Fort Blk. % Rec.	60.73	%	30-130

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/20/2009

Lims Bat # : LIMIT-23271

Page 15 of 19

QC Batch Number: GCMS/SEMI-11942

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-91848	m & p-Cresol(s)	Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	60.71	ug/l	
		Dup Lab Fort Bl %Rec	60.71	%	
		Lab Fort Blank Range	0.01	units	
		Lab Fort Bl. Av. Rec	60.72	%	
	2-Nitrophenol	LFB Duplicate RPD	0.03	%	0-20
		Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	71.88	ug/l	
		Lab Fort Blk. % Rec.	71.88	%	30-130
		Dup Lab Fort Bl Amt.	100.00	ug/l	
	4-Nitrophenol	Dup Lab Fort Bl. Fnd	70.59	ug/l	
		Dup Lab Fort Bl %Rec	70.59	%	
		Lab Fort Blank Range	1.28	units	
		Lab Fort Bl. Av. Rec	71.23	%	
		LFB Duplicate RPD	1.79	%	0-20
	Phenol	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	10.96	ug/l	
		Lab Fort Blk. % Rec.	10.96	%	10-130
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	10.51	ug/l	
	2,4,5-Trichlorophenol	Dup Lab Fort Bl %Rec	10.51	%	
		Lab Fort Blank Range	0.44	units	
		Lab Fort Bl. Av. Rec	10.73	%	
		LFB Duplicate RPD	4.19	%	0-50
		Lab Fort Blank Amt.	100.00	ug/l	
	2,4,6-Trichlorophenol	Lab Fort Blk. Found	26.54	ug/l	
		Lab Fort Blk. % Rec.	26.54	%	20-130
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	26.51	ug/l	
		Dup Lab Fort Bl %Rec	26.51	%	
		Lab Fort Blank Range	0.02	units	
		Lab Fort Bl. Av. Rec	26.52	%	
		LFB Duplicate RPD	0.11	%	0-20
		Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	82.21	ug/l	
		Lab Fort Blk. % Rec.	82.21	%	30-130
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	72.91	ug/l	
		Dup Lab Fort Bl %Rec	72.91	%	
		Lab Fort Blank Range	9.30	units	
		Lab Fort Bl. Av. Rec	77.56	%	
		LFB Duplicate RPD	11.99	%	0-20
		Lab Fort Blank Amt.	100.00	ug/l	

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/20/2009

Lims Bat #: LIMIT-23271

Page 16 of 19

QC Batch Number: GCMS/SEMI-11942

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-91848	2,4,6-Trichlorophenol	Lab Fort Blk. Found	72.23	ug/l	
		Lab Fort Blk. % Rec.	72.23	%	30-130
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	68.17	ug/l	
		Dup Lab Fort Bl %Rec	68.17	%	
		Lab Fort Blank Range	4.07	units	
		Lab Fort Bl. Av. Rec	70.20	%	
	Pentachlorophenol	LFB Duplicate RPD	5.79	%	0-50
		Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	63.52	ug/l	
		Lab Fort Blk. % Rec.	63.52	%	30-130
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	63.29	ug/l	
		Dup Lab Fort Bl %Rec	63.29	%	
	Pyridine	Lab Fort Blank Range	0.22	units	
		Lab Fort Bl. Av. Rec	63.40	%	
		LFB Duplicate RPD	0.36	%	0-50
		Lab Fort Blank Amt.	100.0	ug/l	
		Lab Fort Blk. Found	37.5	ug/l	
		Lab Fort Blk. % Rec.	37.5	%	10-140
		Dup Lab Fort Bl Amt.	100.0	ug/l	
	Benzo(k)fluoranthene	Dup Lab Fort Bl. Fnd	33.1	ug/l	
		Dup Lab Fort Bl %Rec	33.1	%	
		Lab Fort Blank Range	4.3	units	
		Lab Fort Bl. Av. Rec	35.3	%	
		LFB Duplicate RPD	12.3	%	0-50
		Lab Fort Blank Amt.	100.000	ug/l	
		Lab Fort Blk. Found	72.730	ug/l	
	4-Nitroaniline	Lab Fort Blk. % Rec.	72.730	%	40-140
		Dup Lab Fort Bl Amt.	100.000	ug/l	
		Dup Lab Fort Bl. Fnd	64.769	ug/l	
		Dup Lab Fort Bl %Rec	64.769	%	
		Lab Fort Blank Range	7.959	units	
		Lab Fort Bl. Av. Rec	68.750	%	
		LFB Duplicate RPD	11.578	%	0-20
		Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	70.02	ug/l	
		Lab Fort Blk. % Rec.	70.02	%	40-140
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	67.44	ug/l	
		Dup Lab Fort Bl %Rec	67.44	%	
		Lab Fort Blank Range	2.58	units	
		Lab Fort Bl. Av. Rec	68.73	%	

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/20/2009

Lims Bat # : LIMIT-23271

Page 17 of 19

QC Batch Number: GCMS/SEMI-11942

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-91848	4-Nitroaniline	LFB Duplicate RPD	3.75	%	0-20
		Lab Fort Blank Amt.	100.00	ug/l	
	Acetophenone	Lab Fort Blk. Found	71.59	ug/l	40-140
		Lab Fort Blk. % Rec.	71.59	%	
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	68.70	ug/l	
		Dup Lab Fort Bl %Rec	68.70	%	
		Lab Fort Blank Range	2.87	units	
		Lab Fort Bl. Av. Rec	70.15	%	
		LFB Duplicate RPD	4.10	%	0-20
	Carbazole	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	74.80	ug/l	40-140
		Lab Fort Blk. % Rec.	74.80	%	
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	70.97	ug/l	
		Dup Lab Fort Bl %Rec	70.97	%	
		Lab Fort Blank Range	3.83	units	
		Lab Fort Bl. Av. Rec	72.88	%	
		LFB Duplicate RPD	5.25	%	0-20
	Pentachloronitribenzene	Lab Fort Blank Amt.	100.00	ug/l	
		Lab Fort Blk. Found	79.26	ug/l	40-140
		Lab Fort Blk. % Rec.	79.26	%	
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	75.86	ug/l	
		Dup Lab Fort Bl %Rec	75.86	%	
		Lab Fort Blank Range	3.40	units	
		Lab Fort Bl. Av. Rec	77.56	%	
		LFB Duplicate RPD	4.38	%	
	1,2,4,5-Tetrachlorobenzene	Lab Fort Blank Amt.	25.00	ug/l	
		Lab Fort Blk. Found	19.10	ug/l	40-140
		Lab Fort Blk. % Rec.	76.40	%	
		Dup Lab Fort Bl Amt.	100.00	ug/l	
		Dup Lab Fort Bl. Fnd	18.43	ug/l	
		Dup Lab Fort Bl %Rec	18.43	%	
		Lab Fort Blank Range	57.97	units	
		Lab Fort Bl. Av. Rec	47.41	%	
		LFB Duplicate RPD	3.57	%	

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/20/2009

Lims Bat # : LIMIT-23271

Page 18 of 19

NOTES:

QC Batch No. : GCMS/SEMI-11942

Sample ID : 09B04122

Analysis : Phenol-d6

SURROGATE RECOVERY OUTSIDE OF CON-TEST CONTROL LIMITS, BUT WITHIN
METHOD REQUIREMENTS.

QC Batch No. : GCMS/SEMI-11942

Sample ID : LFBLANK-91848

Analysis : 2,4-Dinitrotoluene

LABORATORY FORTIFIED BLANK DUPLICATE RPD OUTSIDE OF CONTROL LIMITS. REDUCED
PRECISION ANTICIPATED FOR ANY REPORTED RESULTS FOR THIS COMPOUND.

QC Batch No. : GCMS/SEMI-11942

Sample ID : LFBLANK-91848

Analysis : Benzoic Acid

LABORATORY FORTIFIED BLANK RECOVERY OUTSIDE OF CONTROL LIMITS. ANY REPORTED
RESULT FOR THIS COMPOUND IN THIS BATCH IS LIKELY TO BE BIASED ON THE LOW SIDE.

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/20/2009

Lims Bat #: LIMIT-23271

Page 19 of 19

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER	This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS	Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount	Amount of analyte found in a sample.
Blank	Method Blank that has been taken through all the steps of the analysis.
LFBLANK	Laboratory Fortified Blank (a control sample)
STDADD	Standard Added (a laboratory control sample)
Matrix Spk Amt Added	Amount of analyte spiked into a sample
MS Amt Measured	Amount of analyte found including amount that was spiked
Matrix Spike % Rec.	% Recovery of spiked amount in sample.
Duplicate Value	The result from the Duplicate analysis of the sample.
Duplicate RPD	The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery	The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD)	Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID)	Surrogate Recovery on the Photoionization Detector.
Standard Measured	Amount measured for a laboratory control sample
Standard Amt Added	Known value for a laboratory control sample
Standard % Recovery	% recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt	Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found	Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec	Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt	Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd	Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec	Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range	Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec.	Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt	Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added	Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured	Matrix Spike Duplicate Amount Measured
MSD % Recovery	Matrix Spike Duplicate % Recovery
MSD Range	Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries

MADEP MCP ANALYTICAL METHOD REPORT CERTIFICATION FORM

Laboratory Name: CON-TEST Analytical Laboratory				Project #: L1MT- 23271	
Project Location: Brookside Terrace, Southbridge, MA				MADEP RTN ¹ :	
This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)] 09B04122- 09B04123					
Sample Matrices: <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Soil/Sediment <input type="checkbox"/> Drinking Water <input type="checkbox"/> Other: _____					
MCP SW-846 Methods Used	8260B ()	8151A ()	8330 ()	6010B ()	7470A/1A ()
	8270C <input checked="" type="checkbox"/>	8081A ()	VPH ()	6020 ()	9014M ² ()
As specified in MADEP Compendium of Analytical Methods. (check all that apply)	8082 ()	8021B ()	EPH ()	7000 S ³ ()	7196A ()
	1 List Release Tracking Number (RTN), if known 2 M – SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method 3 S – SW-846 Methods 7000 Series List individual method and analyte.				
An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status					
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	<u>VPH and EPH Methods only:</u> Was the VPH or EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)				<input type="checkbox"/> Yes <input type="checkbox"/> No ¹
A response to questions E and F below is required for "Presumptive Certainty" status					
E	Were all analytical QC performance standards and recommendations for the specified methods achieved?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.					
<i>I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.</i>					
Signature: <u>Michael Erickson</u>			Position: Assistant Laboratory Director		
Printed Name: Michael Erickson			Date: <u>2/20/09</u>		



Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN-OF-CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

Page 1 of 1

Company Name: GZA GeoEnvironmental, Inc.
Address: 106 South Street
Hopkinton, MA 01748-2207

Telephone: (781) 278-4703

Project # 01-00 43532.10

Client PO # B-32286

Attention: Edith Hutchinson / Michelle Miranda

Project Location: Bedside Tenere, Southbridge, MA

Sampled By: 62A - Norwood, MA - B.P., S.T.

Proposal Provided? (For Billing purposes)

☐ yes ☐ no proposal date

DATA DELIVERY (check one):
☐ FAX ☐ EMAIL ☒ WEBSITE CLIENT
Fax # :
Email:
Format: ☒ EXCEL ☒ PDF ☐ GIS KEY

Date Sampled

Field ID	Sample Description	Lab #	Start Date/Time	Stop Date/Time	Comp- osite	Grab	Matrix Code
----------	--------------------	-------	-----------------	----------------	-------------	------	-------------

01	SW-1	04102	2/1/09	10:50			SW
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02	SW-2	04103	2/1/09	12:00			SW
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03							
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04							
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05							
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06							
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07							
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08							
----	--	--	--	--	--	--	--

09							
----	--	--	--	--	--	--	--

10							
----	--	--	--	--	--	--	--

Relinquished by: (signature) [Signature] Date/Time: 2/1/09 11:00

Received by: (signature) [Signature] Date/Time: 2/3/09 16:00

Relinquished by: (signature) [Signature] Date/Time: 2/3/09 17:30

Received by: (signature) [Signature] Date/Time: 2/3/09 17:30

Turnaround
☐ 24 Hour*
☐ 48 Hour*
☐ 72 Hour*
☒ Std.
☐ Other**
Date needed**
Require lab approval.

Detection Limit Requirements

Regulations? ☐ Y ☐ N

Data Enhancement Project? ☒ Y ☐ N

(MA MCP sites only)

Special Requirements or DL's: See 54R and 14F for DL's

ANALYSIS REQUESTED

Cont. Code: See 54R and 14F
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summary can
T=redial bag
O=Other

of Containers
**Preservation

Cont. Code

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A= air
S= soil/solid
SL= sludge
O= other

**Preservation Codes:
I= Iced
X= Na hydroxide
H= HCL
M= Methanol
N= Nitric Acid
S= Sulfuric Acid
B= Sodium bisulfate
O= Other

Con-Test Laboratory is the ONLY independent laboratory in all of New England with both prestigious AIHA and NELAP Certifications!

Sample Receipt Checklist

 CLIENT NAME: G2A RECEIVED BY: Ko DATE: 2/13/09

1) Was the chain(s) of custody relinquished and signed?

Yes No

2) Does the chain agree with the samples?

Yes No

If not, explain:

3) Are all the samples in good condition?

Yes No

If not, explain:

4) How were the samples received:

 On Ice ☒

 Direct from Sampling ☐

 Ambient ☐

 In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)?

Yes No

 Temperature °C by Temp blank _____ Temperature °C by Temp gun 5c

5) Are there Dissolved samples for the lab to filter?

Yes No

Who was notified _____ Date _____ Time _____

6) Are there any samples "On Hold"?

Yes No

 Stored where:

7) Are there any RUSH or SHORT HOLDING TIME samples?

Yes No

Who was notified _____ Date _____ Time _____

8) Location where samples are stored:

19B

 Permission to subcontract samples? Yes No
 (Walk-in clients only) if not already approved

Client Signature: _____

Containers sent in to Con-Test

	# of containers		# of containers
1 Liter Amber	<u>4</u>	8 oz clear jar	
500 mL Amber		4 oz clear jar	
250 mL Amber (8oz amber)		2 oz clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	
40 mL Vial - type listed below		Brass Sleeves	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Summa Cans	
Flashpoint bottle		Regulators	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen: _____

Do all samples have the proper pH: Yes No N/A



CERTIFICATE OF ANALYSIS

GZA GeoEnvironmental Labs
Attn: Ms. Michelle Mirenda
Engineers and Scientists
106 South Street
Hopkinton, MA 01748

Date Received: 2/13/09
Date Reported: 2/18/09
P.O. #: 8-32285
Work Order #: 0902-02474

DESCRIPTION: GZA FILE# 01.0043532.10 BROOKSIDE TERRACE

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies.
The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844

If you have any questions regarding this work, or if we may be of further assistance, please contact our customer service department.

Approved by:

Data Reporting

enc: Chain of Custody

R.I. Analytical Laboratories, Inc.

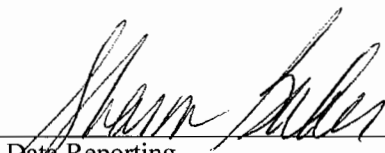
CERTIFICATE OF ANALYSIS

GZA GeoEnvironmental Labs

Date Received: 2/13/09

Work Order #: 0902-02474

Approved by:


Data Reporting

Sample # 001

SAMPLE DESCRIPTION: SW-1

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 2/12/2009 @ 10:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
TOC	7	5	mg/l	SM-5310B	2/17/09	RAS



QA/QC Report

Client: GZA GeoEnvironmental Labs
WO #: 0902-02474
Date: 2/18/09

Description: GZA FILE# 01.0043532.10 BROOKSIDE TERRACE

-Method Blanks Results-

Parameter	Units	Results	Date Analyzed
TOC	mg/l	<5	2/17/2009

-Laboratory Control Standard-

Parameter	Units	Spike Conc.	Detected Conc.	% Rec.	Date Analyzed
TOC	mg/l	141	135	96	2/17/2009

Real

15000-00051
(for lab use only)

[illegible]



ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

PROJECT NARRATIVE

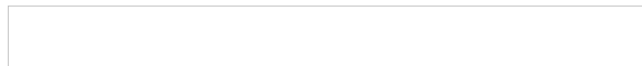
Edie Hutchinson
GZA GeoEnvironmental, Inc. (MA)
106 South Street
Hopkinton, MA 01748

RE: Brookside Terrace

ESS Laboratory Work Order Number: 0902155

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this Project Narrative, the entire report has been paginated. The ESS Laboratory Certifications sheet is the final report page. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director



Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration may be used instead of automated integration because it produces more accurate results. All ICP Metals were analyzed using the established linear dynamic range to determine acceptable analytical results.

ESS Laboratory certifies that the test results meet the requirements of NELAC, except where noted within this project narrative.

Samples were analyzed in accordance with the Guidelines Establishing Test Procedures for the Analysis of Pollutants, 40 CFR Part 136, as amended.

Sample Receipt

The following sample(s) were received on February 12, 2009 for the analyses specified on the enclosed Chain of Custody Record.

Laboratory ID
0902155-01
0902155-02

Matrix
Surface Water
Surface Water

Client Sample ID
SW-1
SW-2



ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc. (MA)

Client Project ID: Brookside Terrace

ESS Laboratory Work Order: 0902155

PROJECT NARRATIVE

Classical Chemistry

0902155-01 **The recommended holding time listed in 40 CFR Part 136 for pH, Dissolved Oxygen, Sulfite and Residual Chlorine is fifteen minutes.**

0902155-02 **The recommended holding time listed in 40 CFR Part 136 for pH, Dissolved Oxygen, Sulfite and Residual Chlorine is fifteen minutes.**

No other observations noted.

End of Project Narrative.



ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc. (MA)
Client Project ID: Brookside Terrace
Client Sample ID: SW-1
Date Sampled: 02/12/09 10:40
Percent Solids: N/A
Initial Volume: 1000
Final Volume: 1
Extraction Method: 3510C

ESS Laboratory Work Order: 0902155
ESS Laboratory Sample ID: 0902155-01
Sample Matrix: Surface Water
Analyst: SEP
Prepared: 02/13/09

608 Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
Aroclor 1016	ND	ug/L	0.10		1	02/17/09
Aroclor 1221	ND	ug/L	0.10		1	02/17/09
Aroclor 1232	ND	ug/L	0.10		1	02/17/09
Aroclor 1242	0.26	ug/L	0.10		1	02/17/09
Aroclor 1248	ND	ug/L	0.10		1	02/17/09
Aroclor 1254	0.14	ug/L	0.10		1	02/17/09
Aroclor 1260	ND	ug/L	0.10		1	02/17/09
Aroclor 1262	ND	ug/L	0.10		1	02/17/09
Aroclor 1268	ND	ug/L	0.10		1	02/17/09

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: Decachlorobiphenyl	67 %		30-150
Surrogate: Decachlorobiphenyl [2C]	69 %		30-150
Surrogate: Tetrachloro-m-xylene	78 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	95 %		30-150



ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc. (MA)
Client Project ID: Brookside Terrace
Client Sample ID: SW-1
Date Sampled: 02/12/09 10:40
Percent Solids: N/A

ESS Laboratory Work Order: 0902155
ESS Laboratory Sample ID: 0902155-01
Sample Matrix: Surface Water

Classical Chemistry

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>
Total Cyanide (LL)	ND	mg/L	0.0050	4500 CN CE		1	EEM	02/17/09
Total Petroleum Hydrocarbon	ND	mg/L	5	1664A		1	JP	02/20/09
Total Residual Chlorine	0.12	mg/L	0.02	4500Cl D		1	EEM	02/13/09 9:20
Total Suspended Solids	17	mg/L	5	2540D		1	KJK	02/12/09



ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc. (MA)
Client Project ID: Brookside Terrace
Client Sample ID: SW-2
Date Sampled: 02/12/09 12:00
Percent Solids: N/A
Initial Volume: 1000
Final Volume: 1
Extraction Method: 3510C

ESS Laboratory Work Order: 0902155
ESS Laboratory Sample ID: 0902155-02
Sample Matrix: Surface Water
Analyst: SEP
Prepared: 02/13/09

608 Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>
Aroclor 1016	ND	ug/L	0.10		1	02/17/09
Aroclor 1221	ND	ug/L	0.10		1	02/17/09
Aroclor 1232	ND	ug/L	0.10		1	02/17/09
Aroclor 1242	0.30	ug/L	0.10		1	02/17/09
Aroclor 1248	ND	ug/L	0.10		1	02/17/09
Aroclor 1254	0.13	ug/L	0.10		1	02/17/09
Aroclor 1260	ND	ug/L	0.10		1	02/17/09
Aroclor 1262	ND	ug/L	0.10		1	02/17/09
Aroclor 1268	ND	ug/L	0.10		1	02/17/09

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: Decachlorobiphenyl	77 %		30-150
Surrogate: Decachlorobiphenyl [2C]	86 %		30-150
Surrogate: Tetrachloro-m-xylene	79 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	95 %		30-150



ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc. (MA)
Client Project ID: Brookside Terrace
Client Sample ID: SW-2
Date Sampled: 02/12/09 12:00
Percent Solids: N/A

ESS Laboratory Work Order: 0902155
ESS Laboratory Sample ID: 0902155-02
Sample Matrix: Surface Water

Classical Chemistry

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>
Total Cyanide (LL)	ND	mg/L	0.0050	4500 CN CE		1	EEM	02/17/09
Total Petroleum Hydrocarbon	ND	mg/L	5	1664A		1	JP	02/20/09
Total Residual Chlorine	0.06	mg/L	0.02	4500Cl D		1	EEM	02/13/09 9:20
Total Suspended Solids	29	mg/L	5	2540D		1	KJK	02/12/09



ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc. (MA)

Client Project ID: Brookside Terrace

ESS Laboratory Work Order: 0902155

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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608 Polychlorinated Biphenyls (PCB)

Batch BB91320 - 3510C

Blank

Aroclor 1016	ND	0.10	ug/L							
Aroclor 1221	ND	0.10	ug/L							
Aroclor 1232	ND	0.10	ug/L							
Aroclor 1242	ND	0.10	ug/L							
Aroclor 1248	ND	0.10	ug/L							
Aroclor 1254	ND	0.10	ug/L							
Aroclor 1260	ND	0.10	ug/L							
Aroclor 1262	ND	0.10	ug/L							
Aroclor 1268	ND	0.10	ug/L							

Surrogate: Decachlorobiphenyl	0.0382		ug/L	0.05000		76	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0409		ug/L	0.05000		82	30-150			
Surrogate: Tetrachloro-m-xylene	0.0326		ug/L	0.05000		65	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0406		ug/L	0.05000		81	30-150			

LCS

Aroclor 1016	0.96	0.10	ug/L	1.000		96	40-140			
Aroclor 1260	0.91	0.10	ug/L	1.000		91	40-140			

Surrogate: Decachlorobiphenyl	0.0417		ug/L	0.05000		83	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0457		ug/L	0.05000		91	30-150			
Surrogate: Tetrachloro-m-xylene	0.0429		ug/L	0.05000		86	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0500		ug/L	0.05000		100	30-150			

LCS Dup

Aroclor 1016	0.96	0.10	ug/L	1.000		96	40-140	0.02	50	
Aroclor 1260	0.93	0.10	ug/L	1.000		93	40-140	1	50	

Surrogate: Decachlorobiphenyl	0.0408		ug/L	0.05000		82	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0444		ug/L	0.05000		89	30-150			
Surrogate: Tetrachloro-m-xylene	0.0411		ug/L	0.05000		82	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0475		ug/L	0.05000		95	30-150			

Classical Chemistry

Batch BB91220 - General Preparation

Blank

Total Suspended Solids	ND	5	mg/L							
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LCS

Total Suspended Solids	62		mg/L	60.60		102	80-120			
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Batch BB91303 - General Preparation

Blank

Total Residual Chlorine	ND	0.02	mg/L							
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LCS

Total Residual Chlorine	1.54		mg/L	1.580		97	85-115			
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Duplicate Source: 0902155-02



ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc. (MA)

Client Project ID: Brookside Terrace

ESS Laboratory Work Order: 0902155

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Classical Chemistry										
Batch BB91303 - General Preparation										
Total Residual Chlorine	0.06	0.02	mg/L		0.06			0	20	
Batch BB91703 - TCN Prep										
Blank										
Total Cyanide (LL)	ND	0.0050	mg/L							
LCS										
Total Cyanide (LL)	0.0194	0.0050	mg/L	0.02006		97	90-110			
LCS										
Total Cyanide (LL)	0.138	0.0050	mg/L	0.1504		92	90-110			
LCS Dup										
Total Cyanide (LL)	0.140	0.0050	mg/L	0.1504		93	90-110	1	20	
Duplicate Source: 0902155-02										
Total Cyanide (LL)	0.0020	0.0050	mg/L		0.0023			14	20	
Matrix Spike Source: 0902155-02										
Total Cyanide (LL)	0.0980	0.0050	mg/L	0.1003	0.0023	95	75-125			
Batch BB92005 - General Preparation										
Blank										
Total Petroleum Hydrocarbon	ND	5	mg/L							
LCS										
Total Petroleum Hydrocarbon	19	5	mg/L	20.00		94	66-114			



ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc. (MA)

Client Project ID: Brookside Terrace

ESS Laboratory Work Order: 0902155

Notes and Definitions

U	Analyte included in the analysis, but not detected
HT	The recommended holding time listed in 40 CFR Part 136 for pH, Dissolved Oxygen, Sulfite and Residual Chlorine is fifteen minutes.
ND	Analyte NOT DETECTED above the detection limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.



ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: GZA GeoEnvironmental, Inc. (MA)

Client Project ID: Brookside Terrace

ESS Laboratory Work Order: 0902155

ESS LABORATORY CERTIFICATIONS

U.S. Army Corps of Engineers
Soil and Water

Rhode Island: A-179
Potable and Non Potable Water
<http://www.health.ri.gov/labs/waterlabs-instate.php>

Connecticut: PH-0750
Potable and Non Potable Water, Solid and Hazardous Waste
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf

Maine: RI002
Potable and Non Potable Water
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts: M-RI002
Potable and Non Potable Water
<http://public.dep.state.ma.us/labcert/labcert.aspx>

New Hampshire (NELAP accredited): 242405
Potable and Non Potable Water
<http://www4.egov.nh.gov/des/nhelap/namesearch.asp>

New York (NELAP accredited): 11313
Potable and Non Potable Water, Solid and Hazardous Waste
<http://www.wadsworth.org/labcert/elap/comm.html>

United States Department of Agriculture
Soil Permit: S-54210

New Jersey (NELAP accredited): RI002
Potable and Non Potable Water, Solid and Hazardous Waste
<http://www.nj.gov/dep/oqa/certlabs.htm>

Maryland: 301
Potable Water
http://www.mde.state.md.us/assets/document/wsp_labs

South Carolina: 78003
Volatile Organic Compounds in Potable Water

55

0962155
(for late use only)

[illegible]

ATTACHMENT 6

SUPPLEMENTAL INFORMATION – 7Q10 DATA FOR ROUGE BROOK CHANNEL



Massachusetts StreamStats

Streamstats Ungaged Site Report

Date: Fri May 15 2009 12:27:14

Site Location: Massachusetts

NAD83 Latitude: 42.0652 (42 03 54)

NAD83 Longitude: -72.0072 (-72 00 25)

NAD27 Latitude: 42.0651 (42 03 54)

NAD27 Longitude: -72.0077 (-72 00 27)

Drainage Area: 10.3 mi²

Peak Flow Basin Characteristics

100% Statewide Low Flow (10.3 mi²)

Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	10.3	1.61	149
Mean Basin Slope from 250K DEM (percent)	2.8	0.32	24.6
Stratified Drift per Stream Length (square mile per mile)	0.00184	0	1.29
Massachusetts Region (dimensionless)	0	0	1

Streamflow Statistics

Statistic	Flow (ft ³ /s)	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
				Minimum	Maximum
D50	10.3	18		5.9	17.9
D60	6.67	20		2.92	15.1
D70	3.26	24		1.05	9.99
D75	2.36	26		0.78	7.04
D80	1.5	28		0.49	4.51
D85	1.07	32		0.32	3.53
D90	0.65	37		0.19	2.14
D95	0.38	46		0.1	1.39
D98	0.24	60		0.0555	0.94
D99	0.17	65		0.0384	0.73
M7D2Y	0.45	50		0.11	1.71
AUGD50	1.13	33		0.34	3.73
M7D10Y	0.14	71		0.028	0.66



GZA
GeoEnvironmental, Inc.
One Edgewater Drive
Norwood, MA 02062
781-278-3700
Fax 781-278-5701
<http://www.gza.com>

Engineers and
Scientists

JOB 01.00 43532.10
SHEET NO. 1 OF 1
CALCULATED BY Sanjchintalapati DATE 8/18/09
CHECKED BY _____ DATE _____
SCALE N/A

Dilution Factor calculations :-

$$\text{Dilution factor, } D_f = \frac{Q_d + Q_s}{Q_d}$$

where, Q_d = Maximum flow rate of discharge
in cubic feet per second (cfs)

$$(1 \text{ gpm} = 0.00223 \text{ cfs})$$

Q_s = Receiving water flow (cfs)
{From USGS streamstats website}

$$Q_d = 100 \text{ gpm} = 0.22 \text{ cfs}$$

$$Q_s = 0.14 \text{ cfs}$$

$$\therefore D_f = \frac{Q_d + Q_s}{Q_d} = \frac{0.22 + 0.14}{0.22} = 1.63$$

ATTACHMENT 7

COPY OF A LETTER FROM TRIBAL HISTORIC PRESERVATION OFFICER

APPENDIX A
MASSACHUSETTS HISTORICAL COMMISSION
220 MORRISSEY BOULEVARD
BOSTON, MASS. 02125
617-727-8470, FAX: 617-727-5128

RECEIVED

MAR 24 2009

MASS. HIST. COMM

PROJECT NOTIFICATION FORM

Project Name: Brookside Terrace Apartments

Location / Address: 11 Village Drive - Map 58, Lots 22 & 23

City / Town: Southbridge

Project Proponent

Name: Brookside Terrace Associates

Address: One Bridge St, Suite 300

City/Town/Zip/Telephone: Newton, MA 02458

Agency license or funding for the project (list all licenses, permits, approvals, grants or other entitlements being sought from state and federal agencies).

Agency Name

Type of License or funding (specify)

Please see attached permit list

Project Description (narrative):

Please see attached narrative

Does the project include demolition? If so, specify nature of demolition and describe the building(s) which are proposed for demolition.

No

Does the project include rehabilitation of any existing buildings? If so, specify nature of rehabilitation and describe the building(s) which are proposed for rehabilitation.

No

Does the project include new construction? If so, describe (attach plans and elevations if necessary).

No

After review of MHC files and the materials you submitted, it has been determined that this project is unlikely to affect significant historic or archaeological resources.

Edward L. Bell

Date

Senior Archaeologist

30 March 2009

Massachusetts Historical Commission

cc: Southbridge Historian

950 CMR: OFFICE OF THE SECRETARY OF THE COMMONWEALTH

APPENDIX A (continued)

To the best of your knowledge, are any historic or archaeological properties known to exist within the project's area of potential impact? If so, specify.

What is the total acreage of the project area? 19.5 acres (whole site but remediation area is concentrated along the north bank of Lebanon Brook)

Woodland	<u><1</u>	acres	Productive Resources:		
Wetland	<u>1.8±</u>	acres	Agriculture	<u>0</u>	acres
Floodplain	<u>2</u>	acres	Forestry	<u>0</u>	acres
Open space	<u><1±</u>	acres	Mining/Extraction	<u>0</u>	acres
Developed	<u>18.0±</u>	acres	Total Project Acreage		acres

What is the acreage of the proposed new construction? 0 acres

What is the present land use of the project area?

Apartment units

Please attach a copy of the section of the USGS quadrangle map which clearly marks the project location.

Attached

This Project Notification Form has been submitted to the MHC in compliance with 950 CMR 71.00.

Signature of Person submitting this form: Michele Simoneaux Date: 3/20/09
Name: Michele Simoneaux (GZA GeoEnvironment)
Address: One Edgewater Drive
City/Town/Zip: Norwood, MA 02062
Telephone: 781-278-5802

REGULATORY AUTHORITY

950 CMR 71.00: M.G.L. c. 9, §§ 26-27C as amended by St. 1988, c. 254.